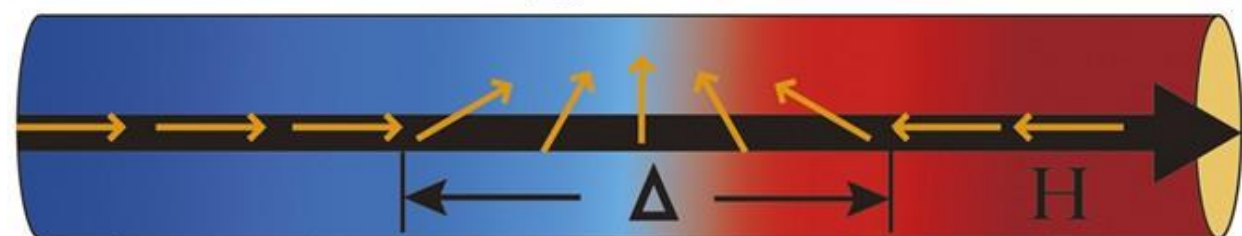
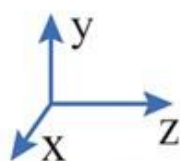
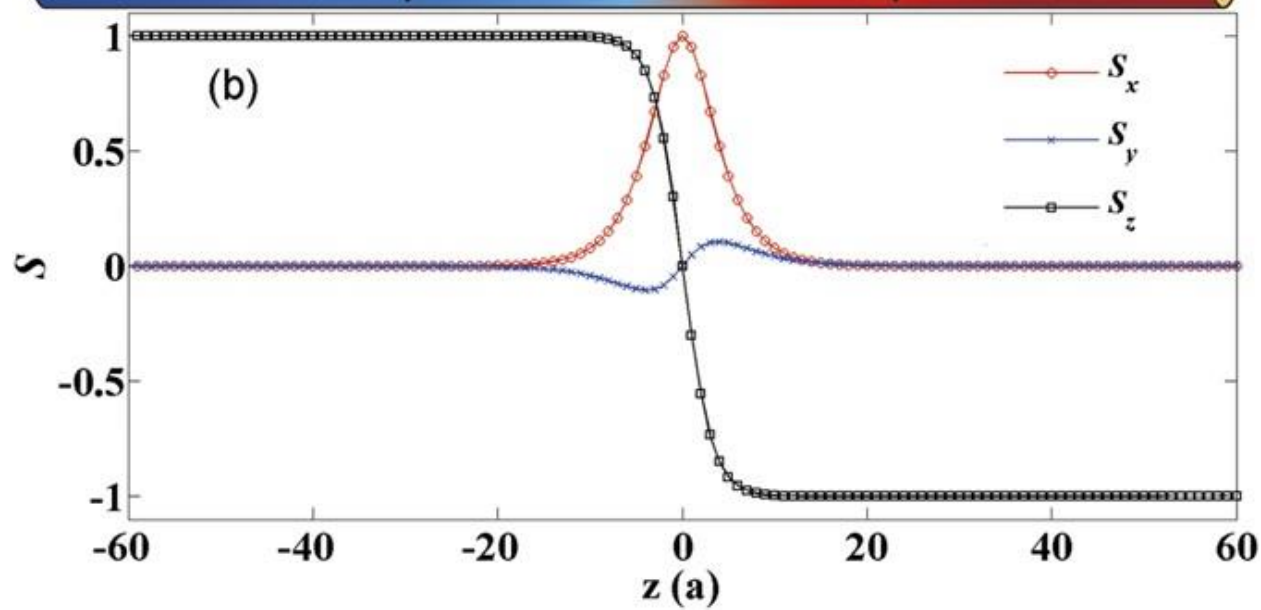
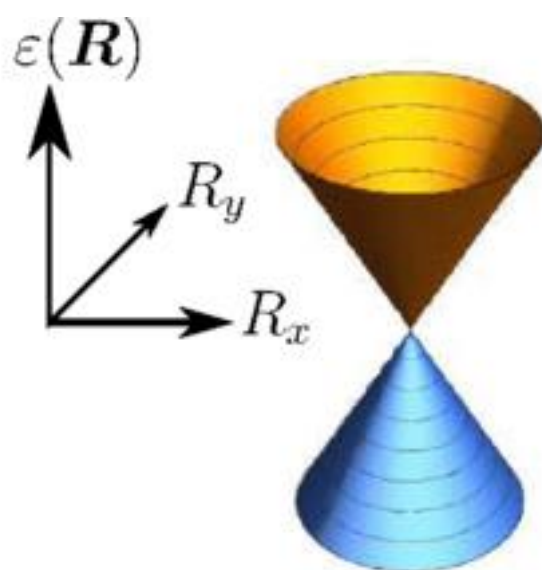
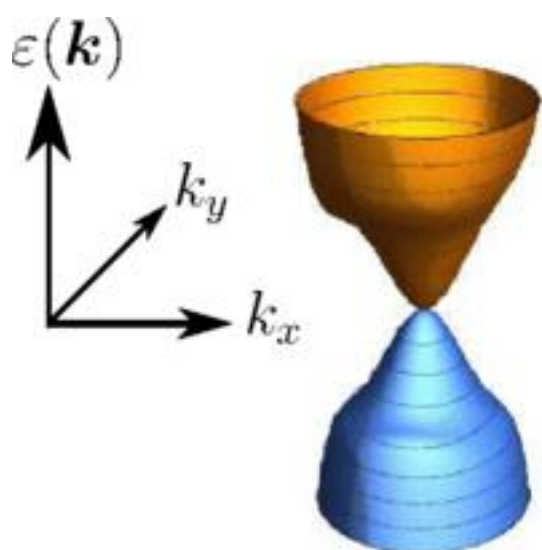
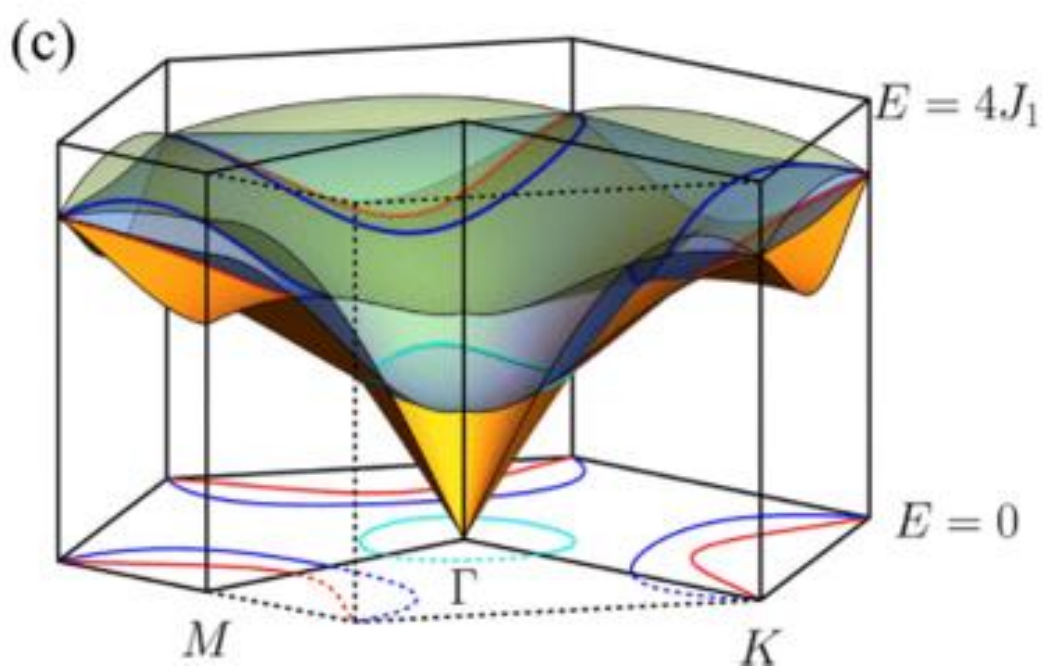
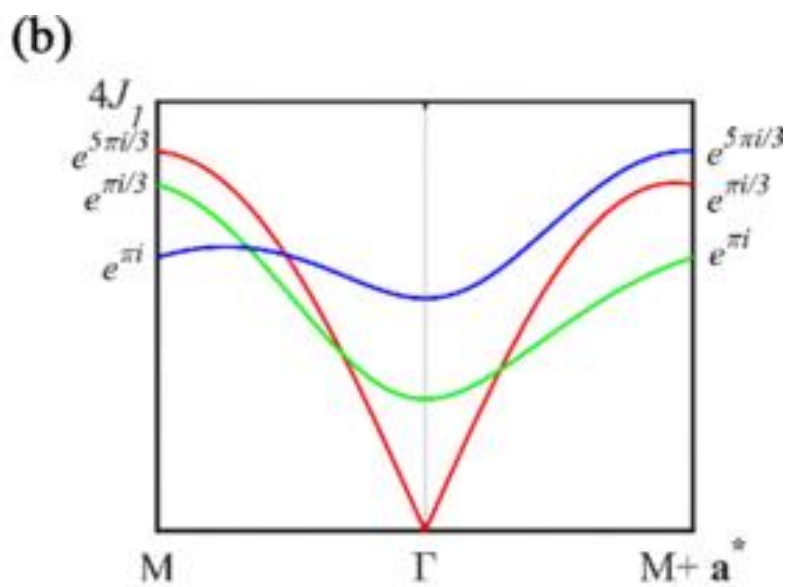
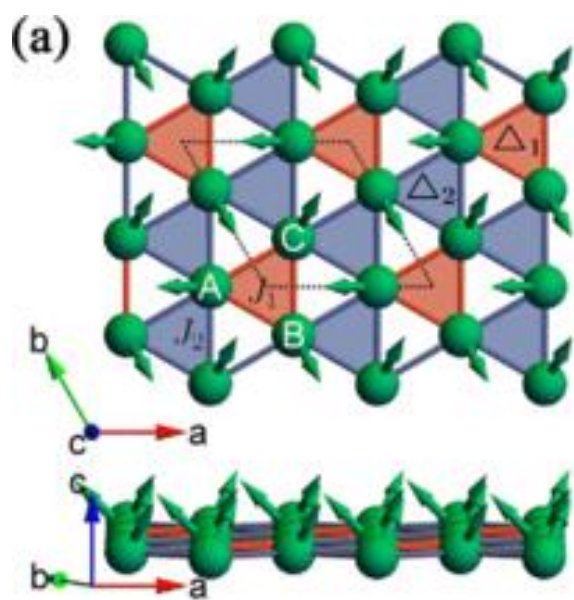


(a)

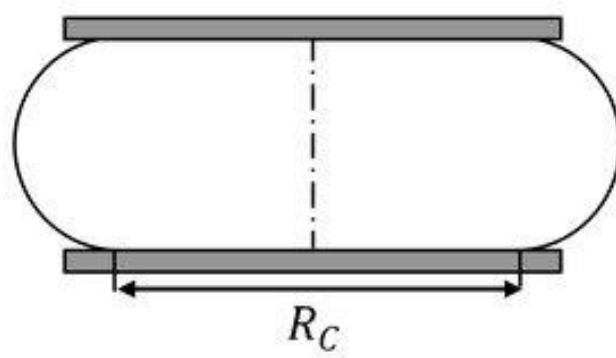
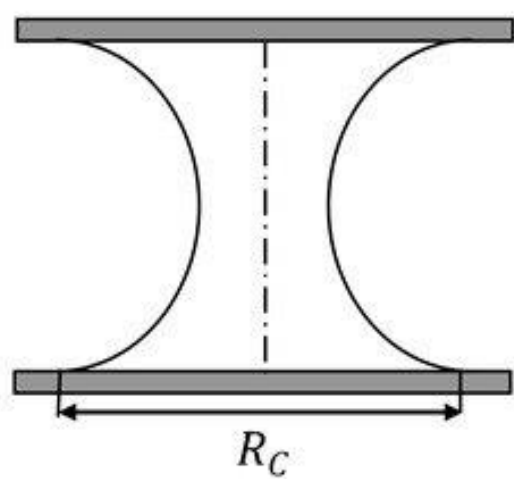
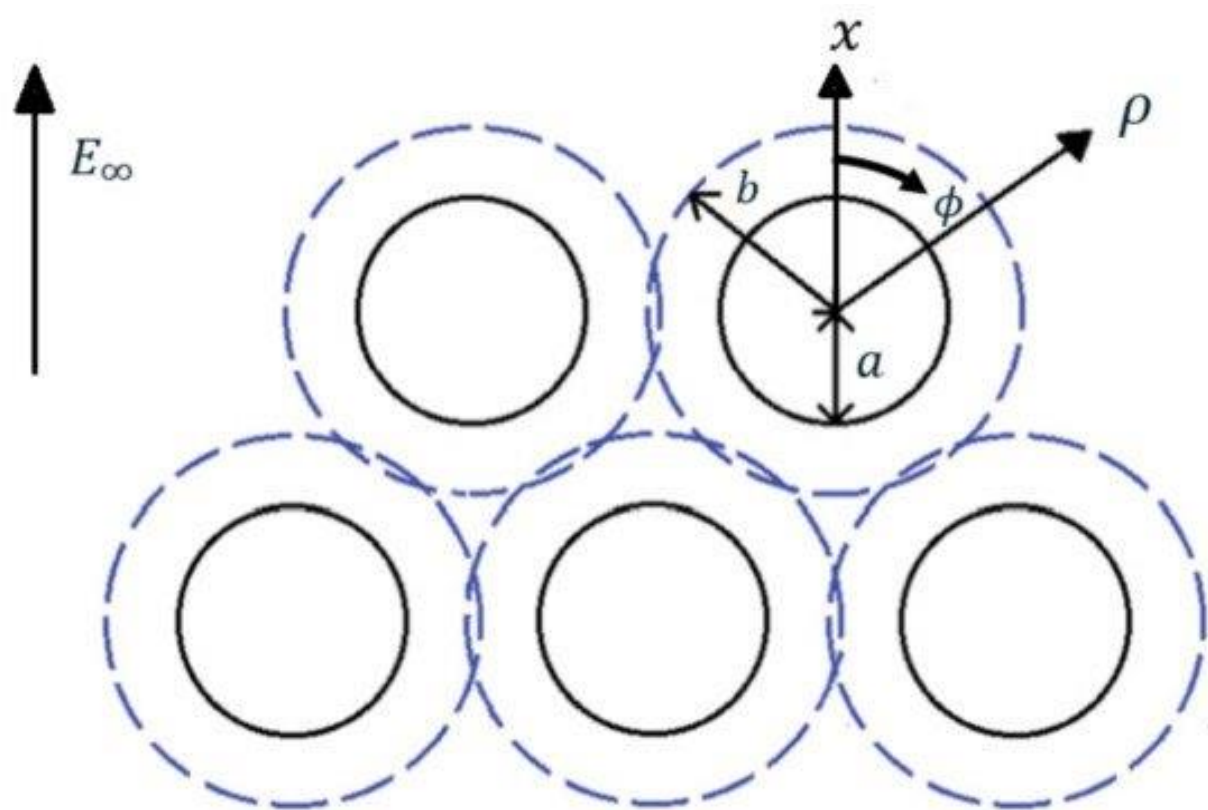
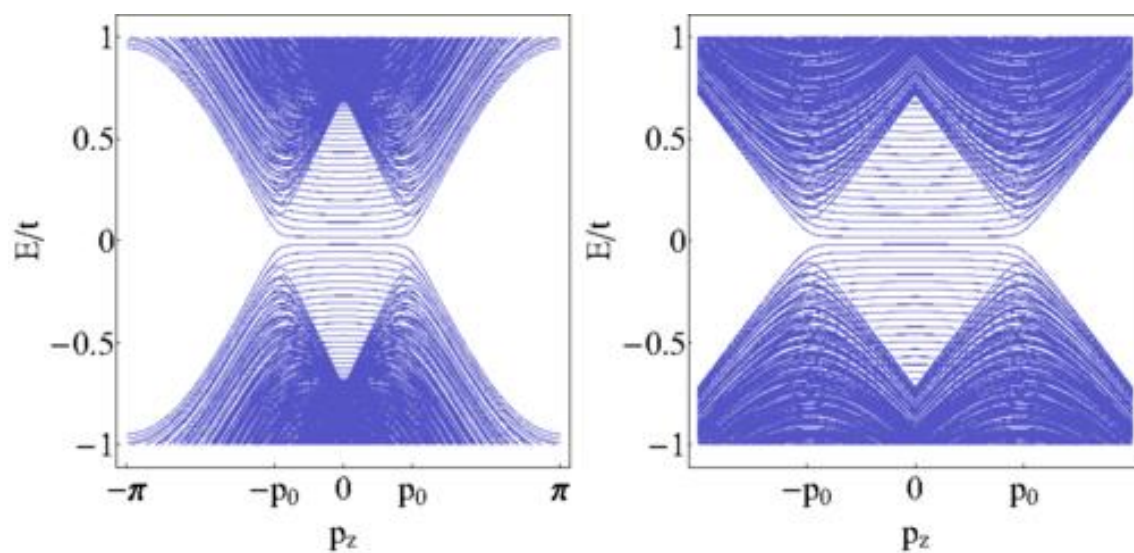


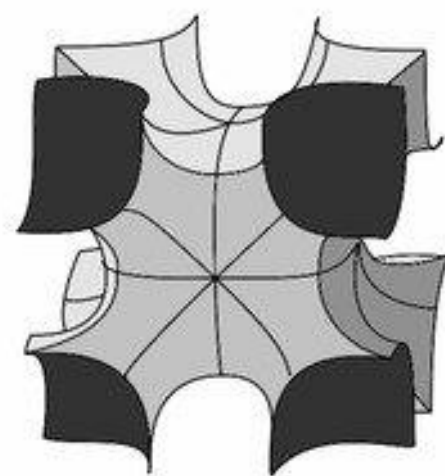
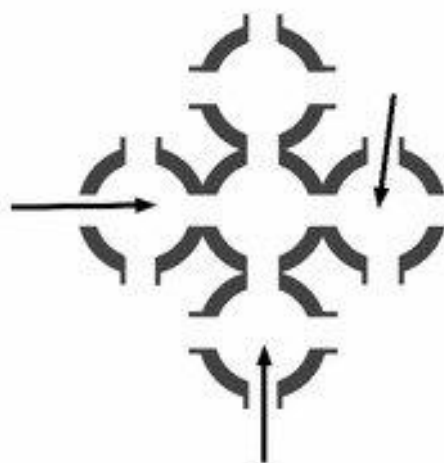
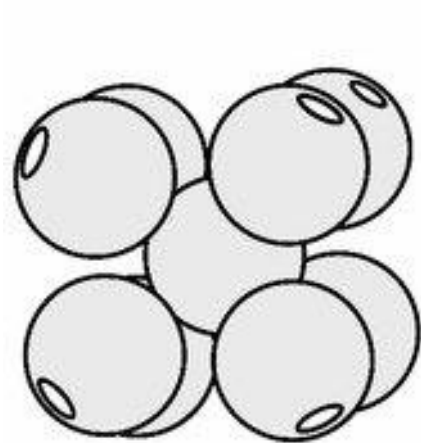
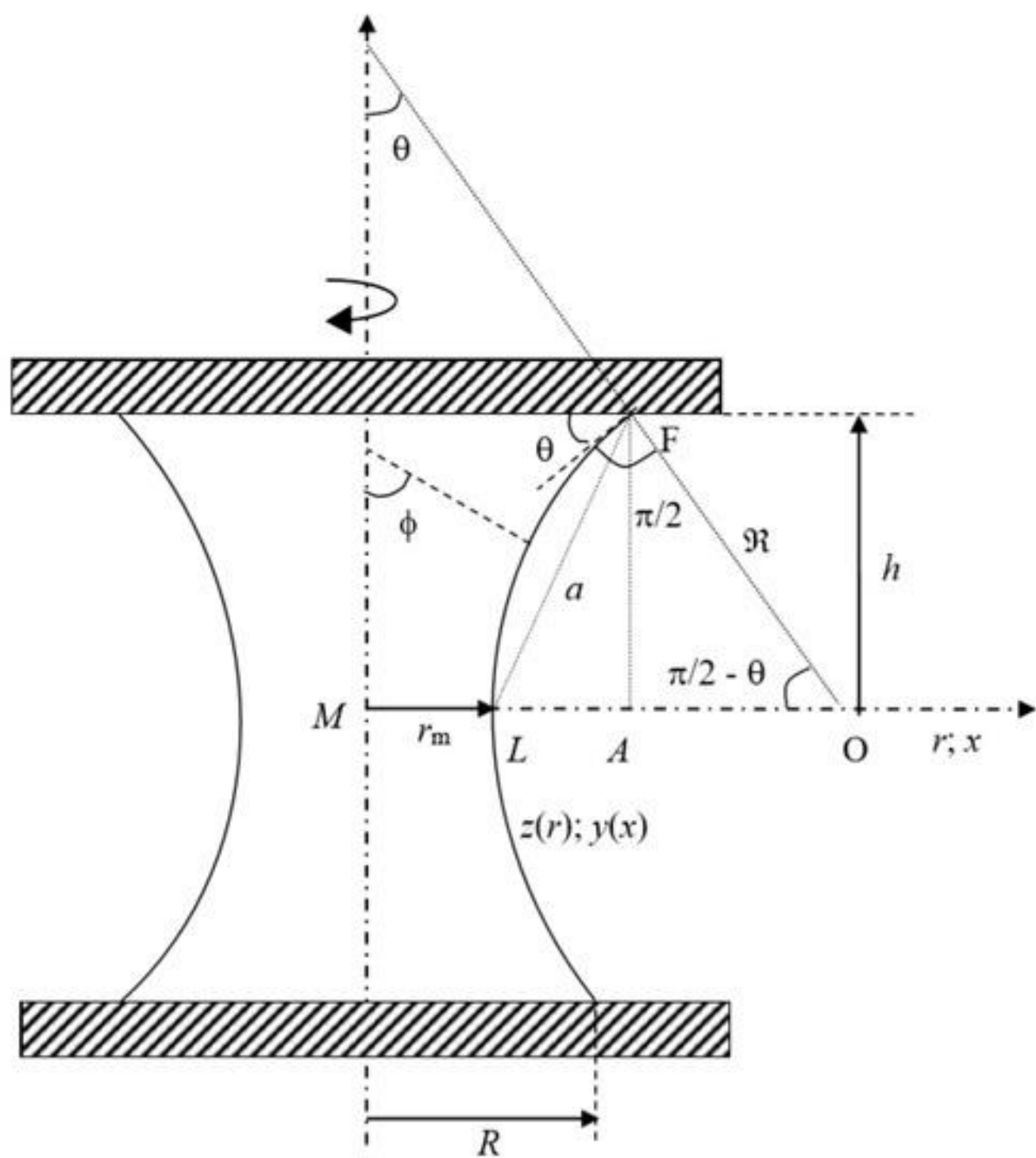
(b)

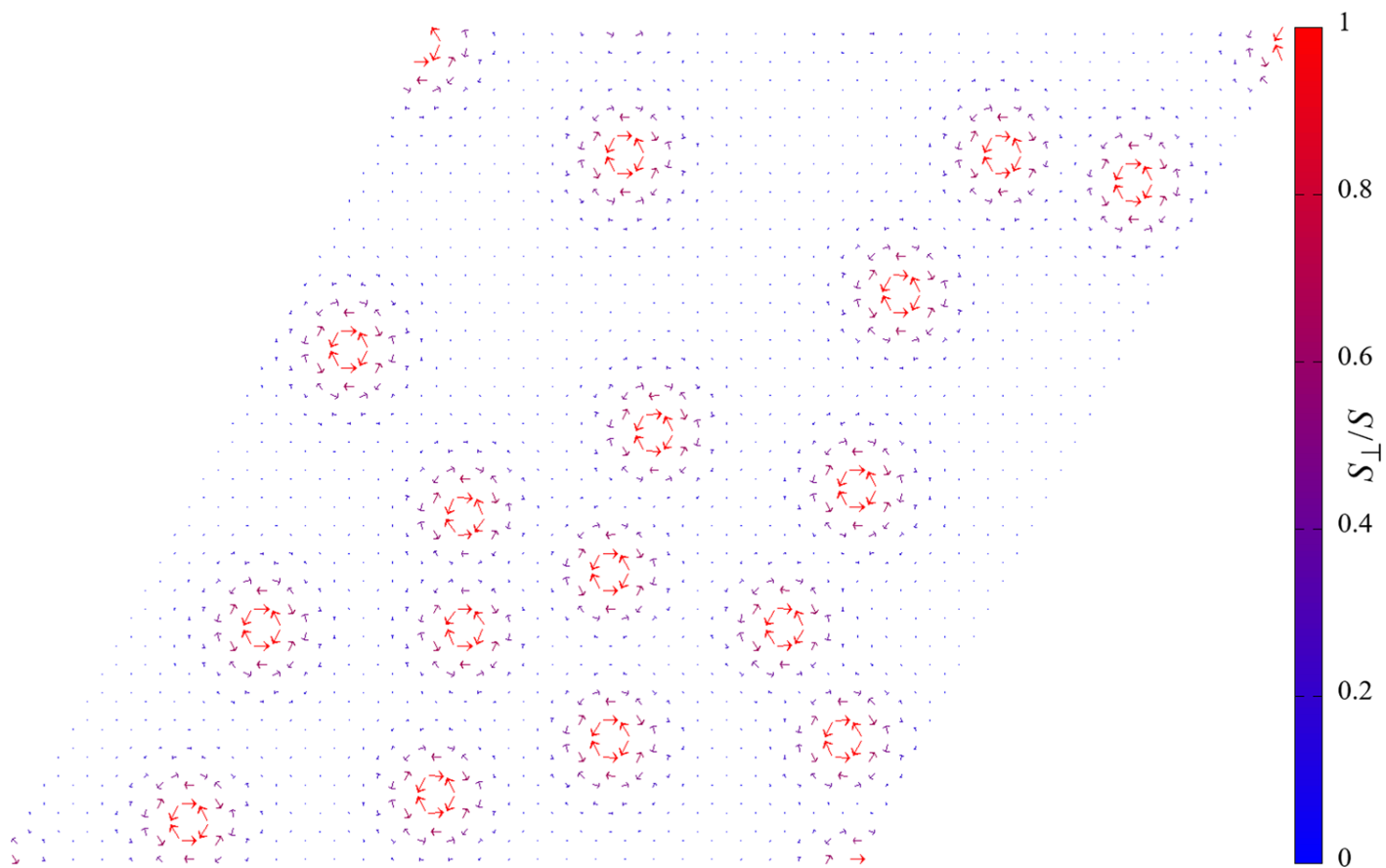
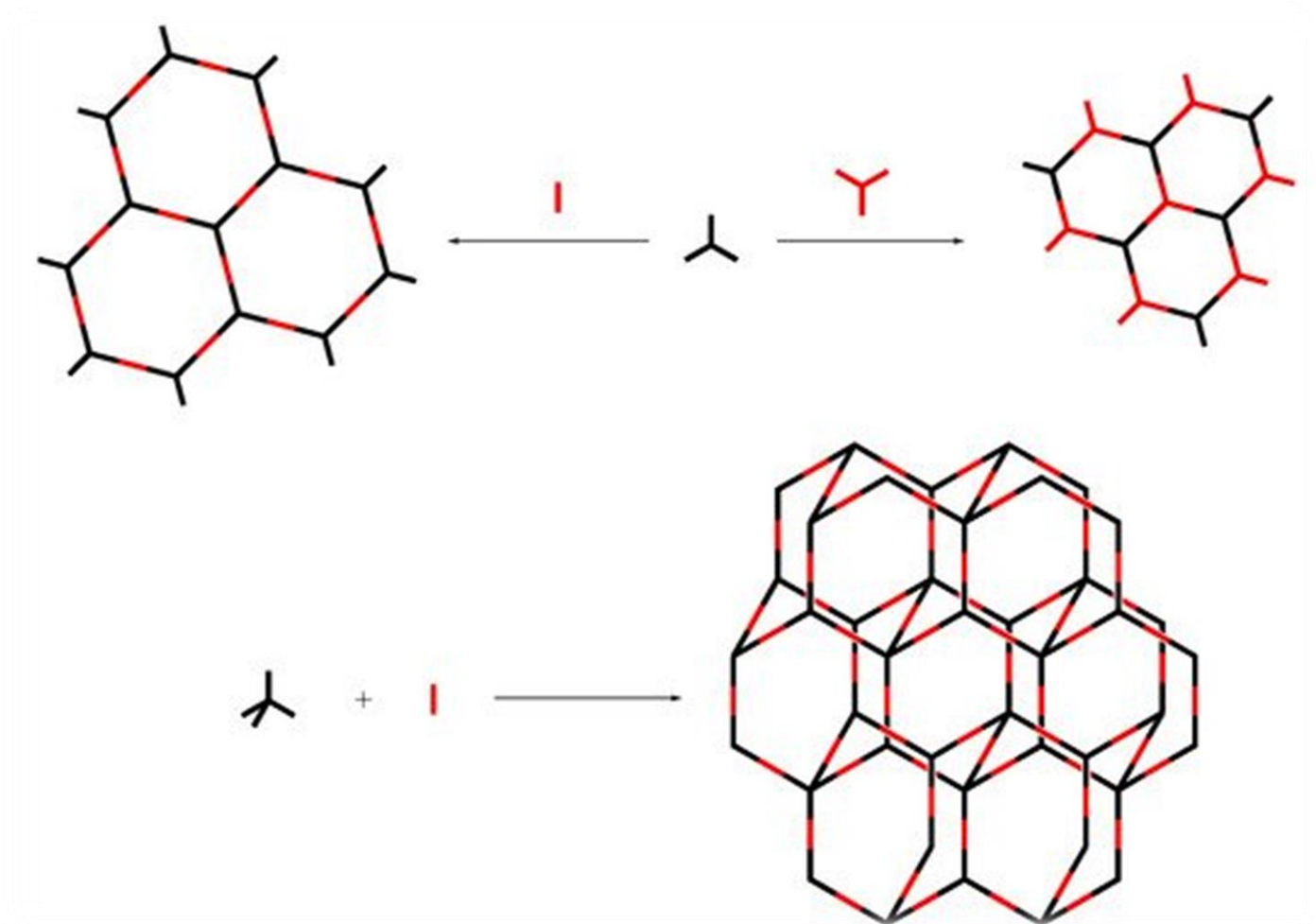




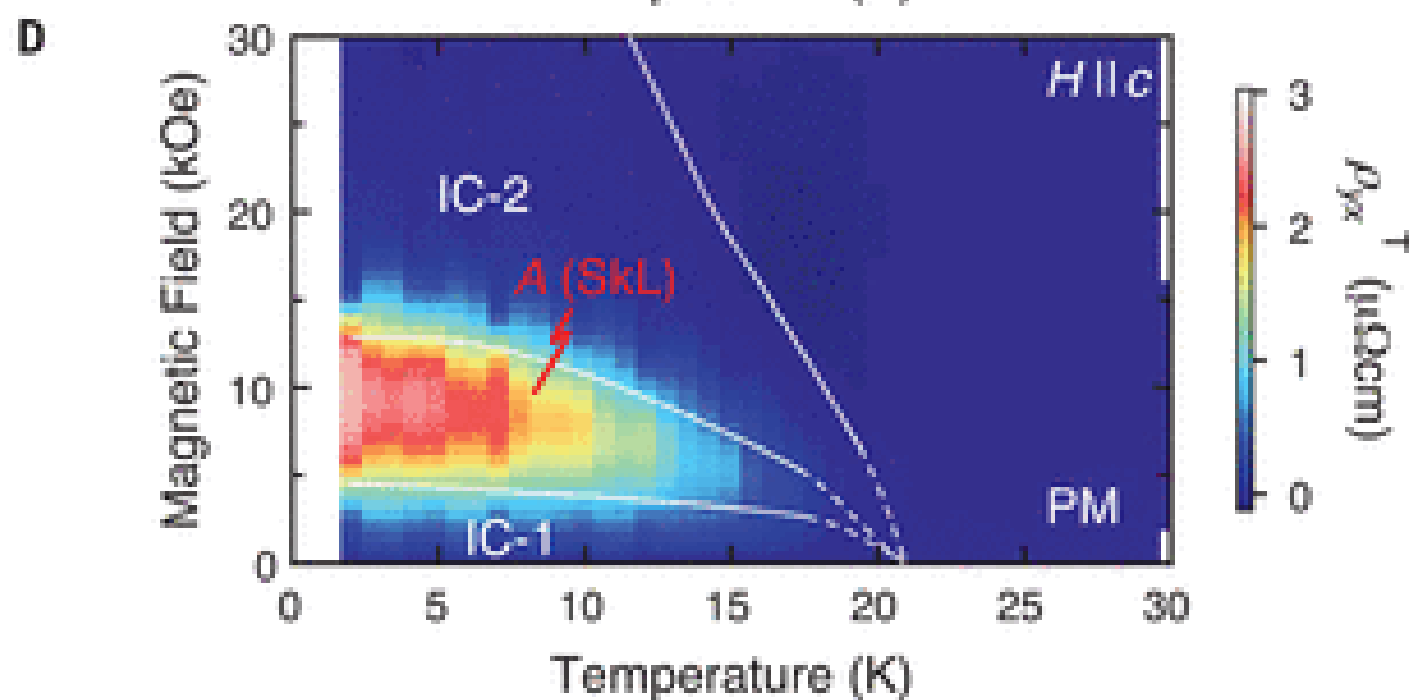
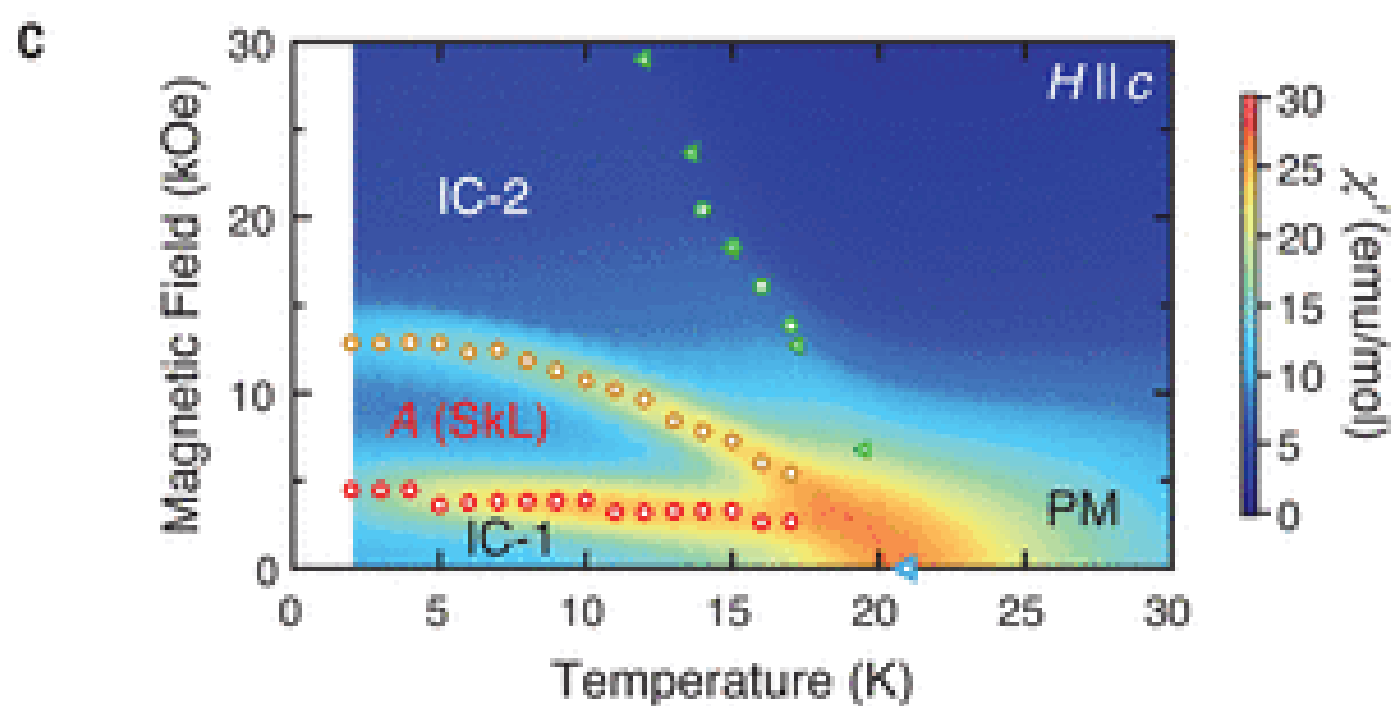
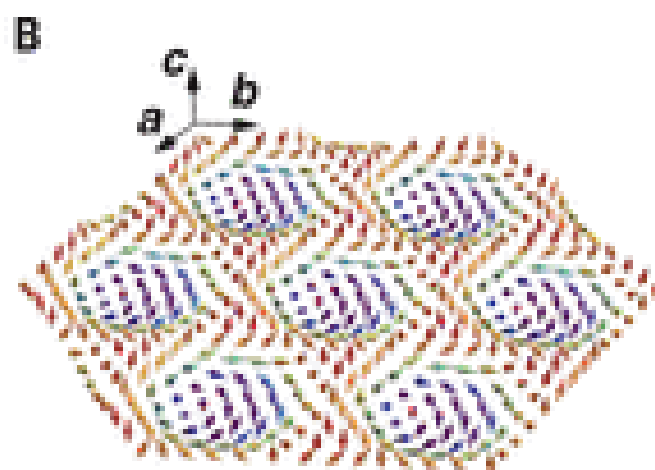
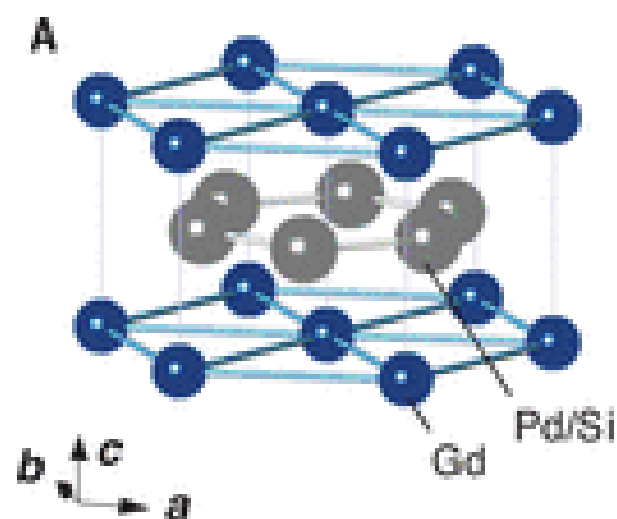


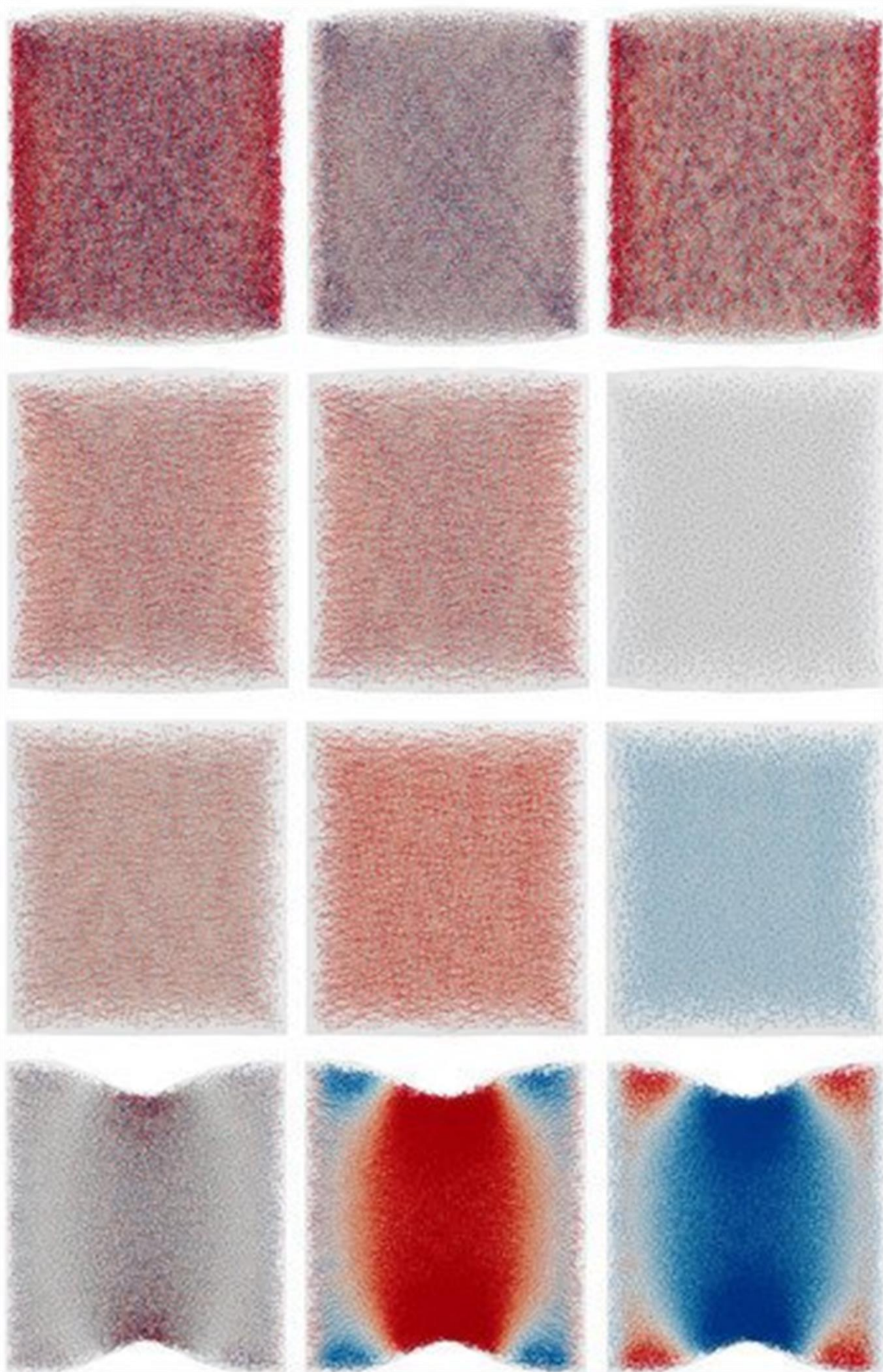




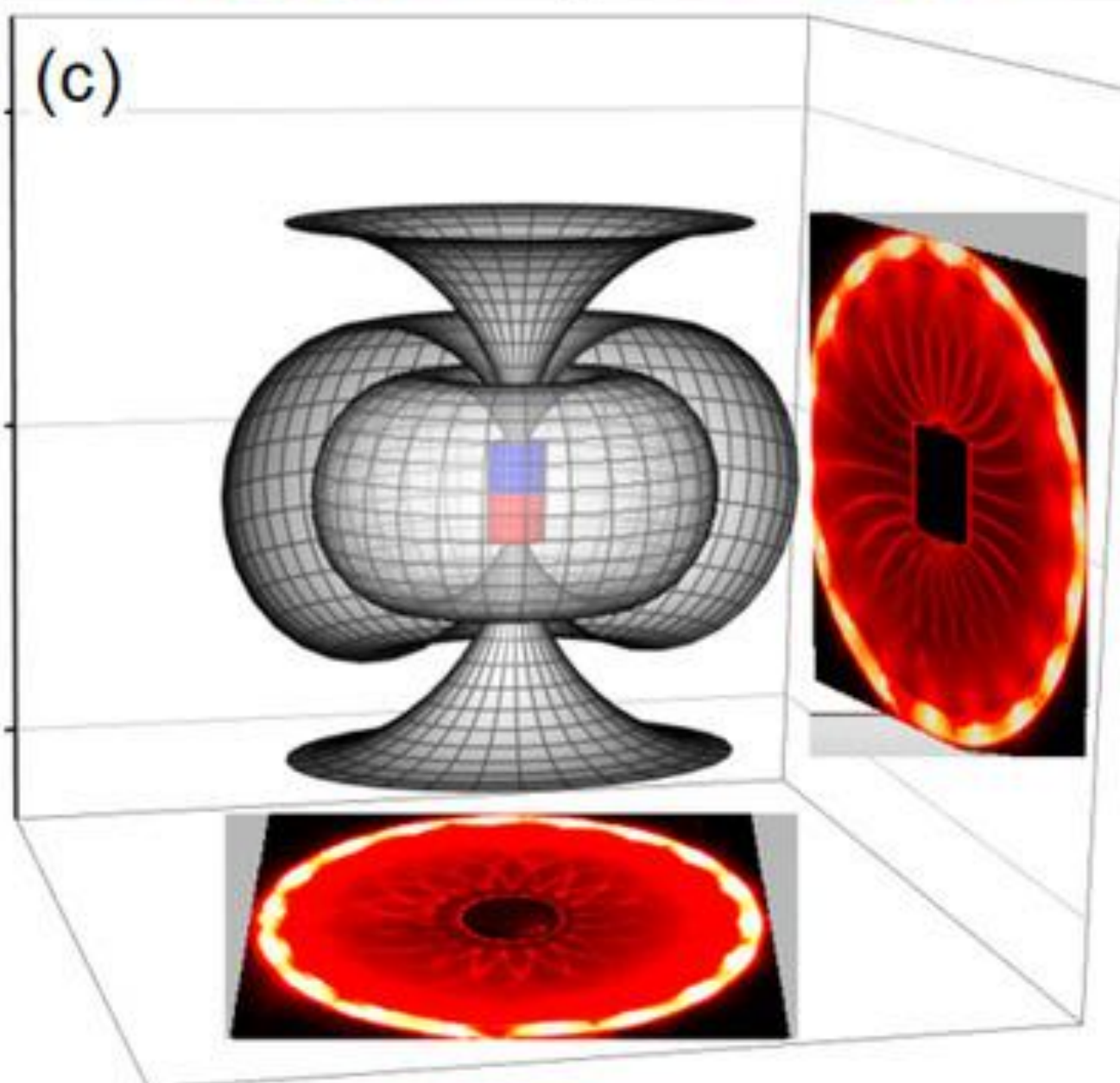
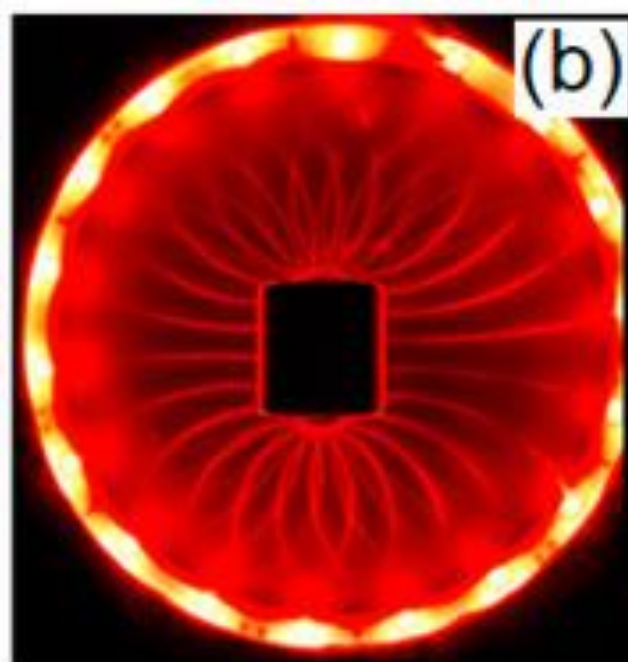
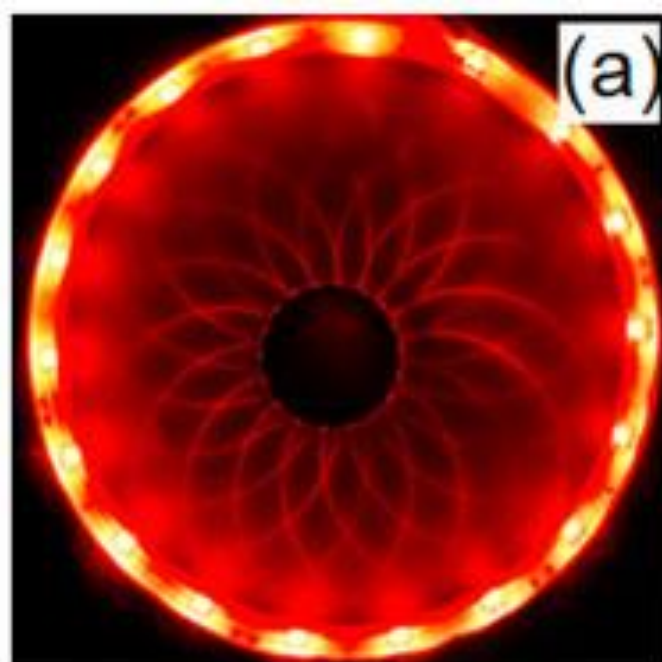




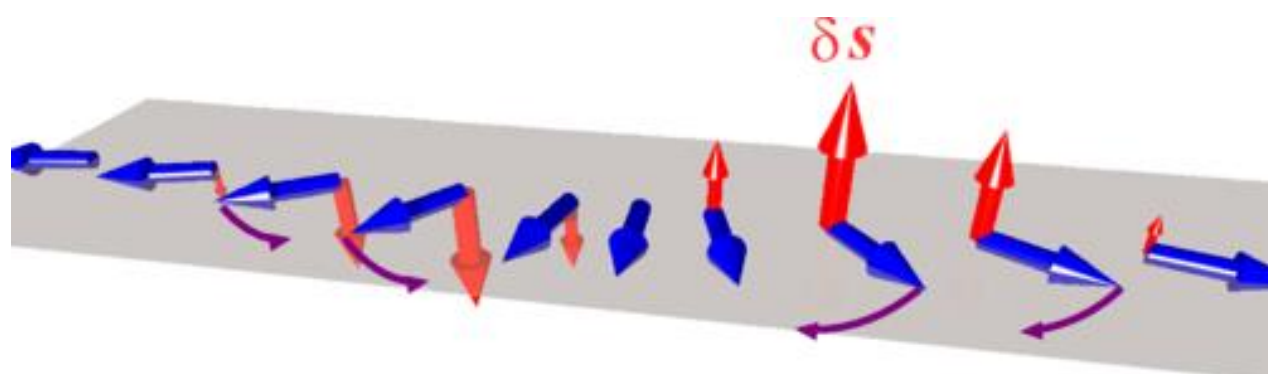
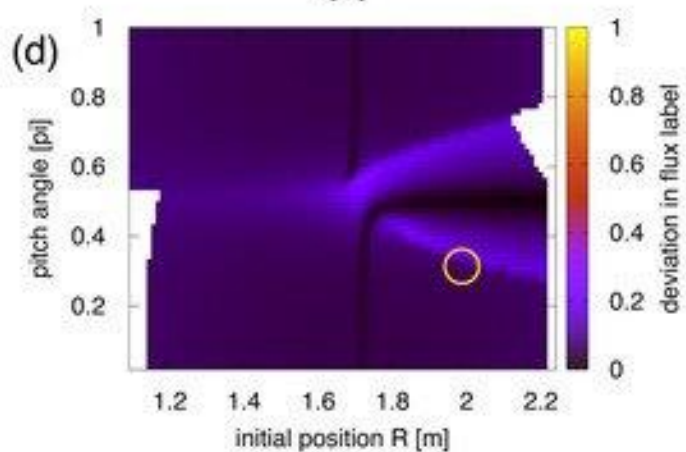
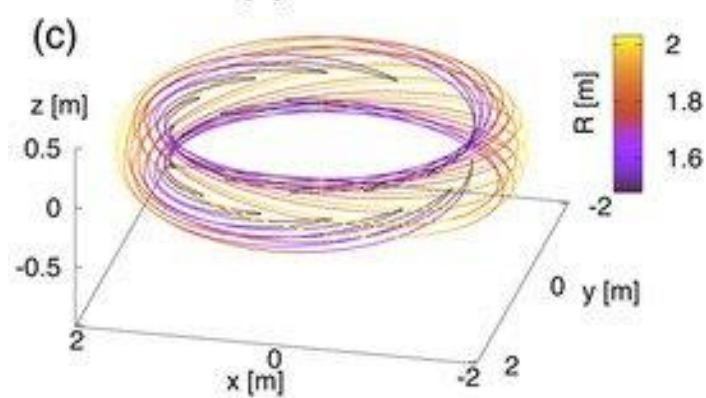
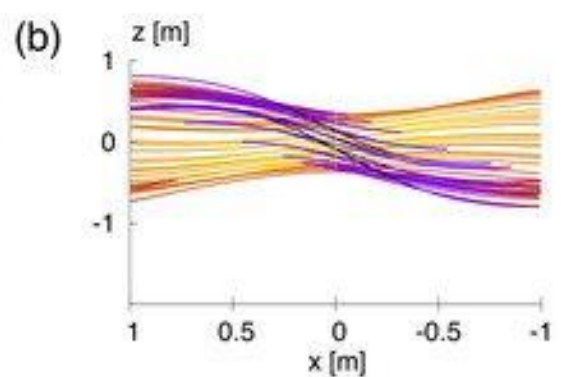
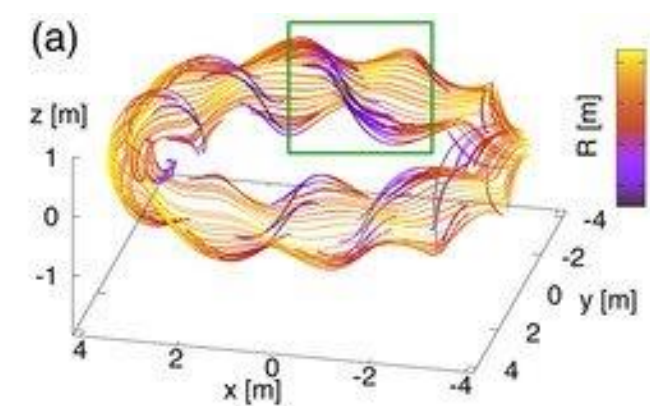
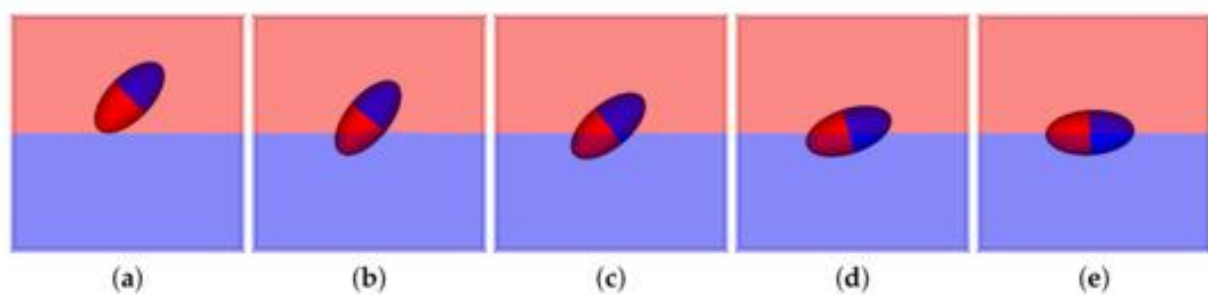


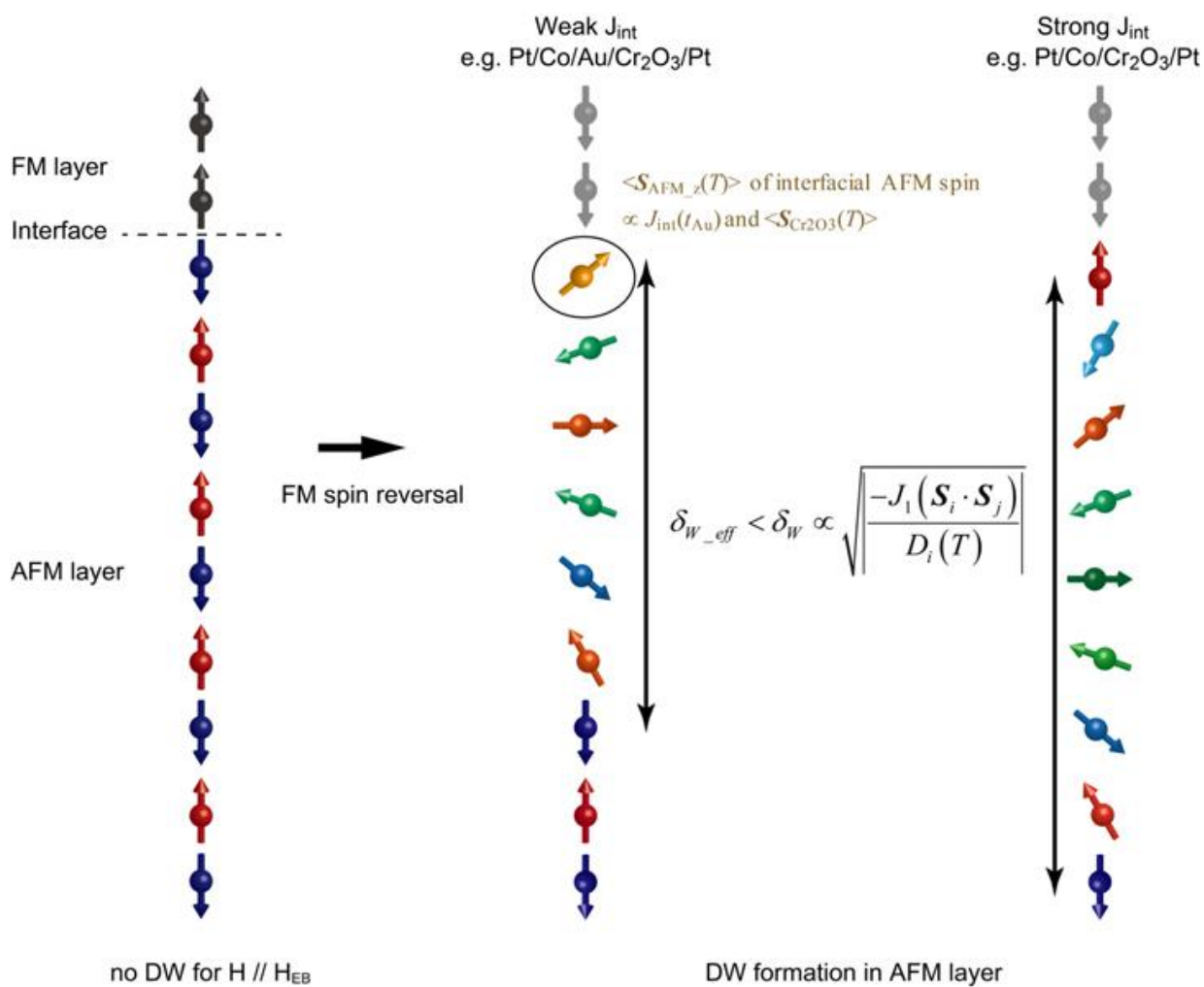
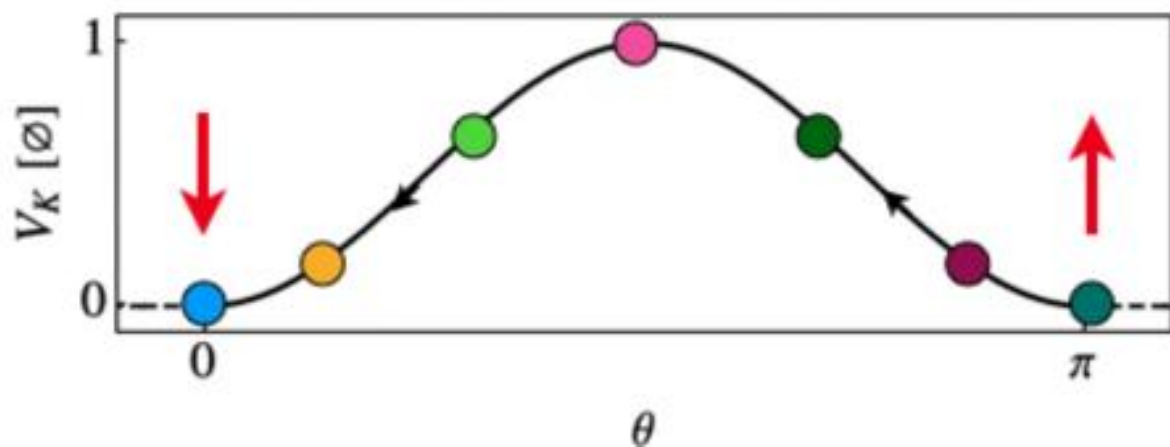
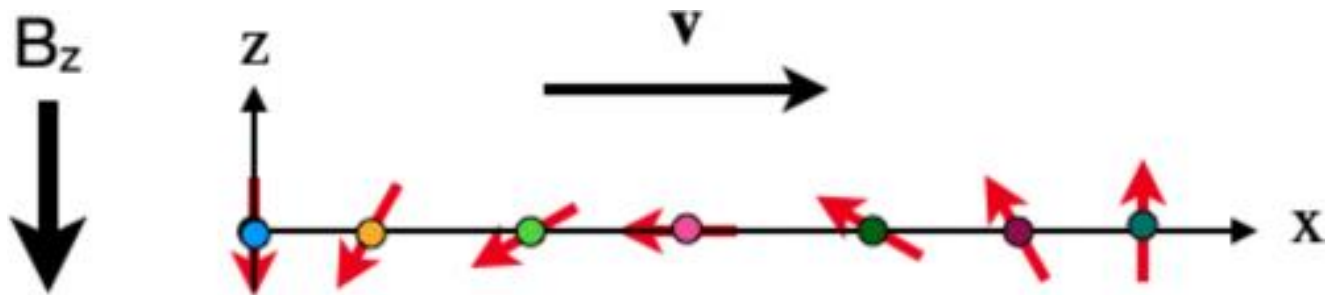




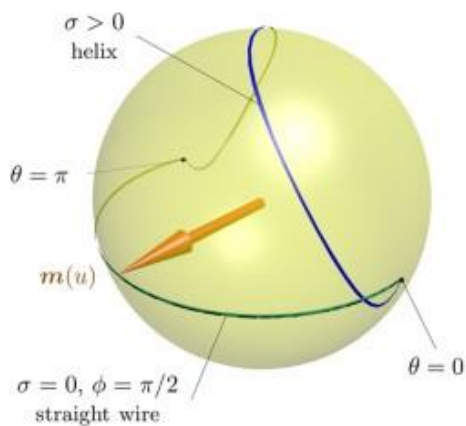




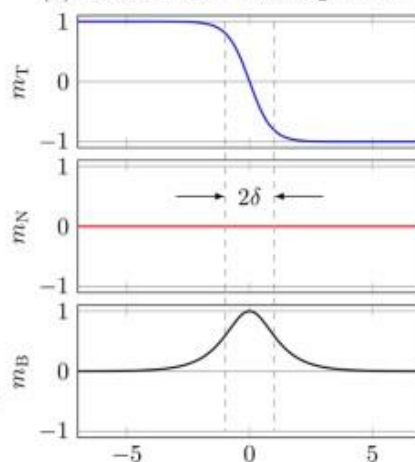




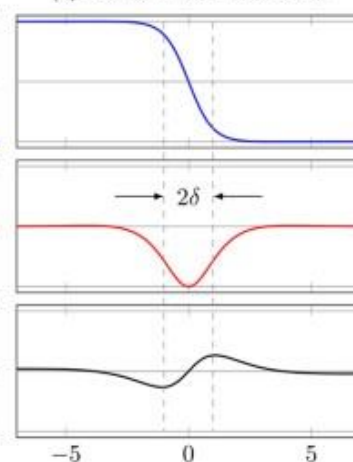
(a) Schematic of the evolution of magnetization vector



(b) Domain wall in a straight wire



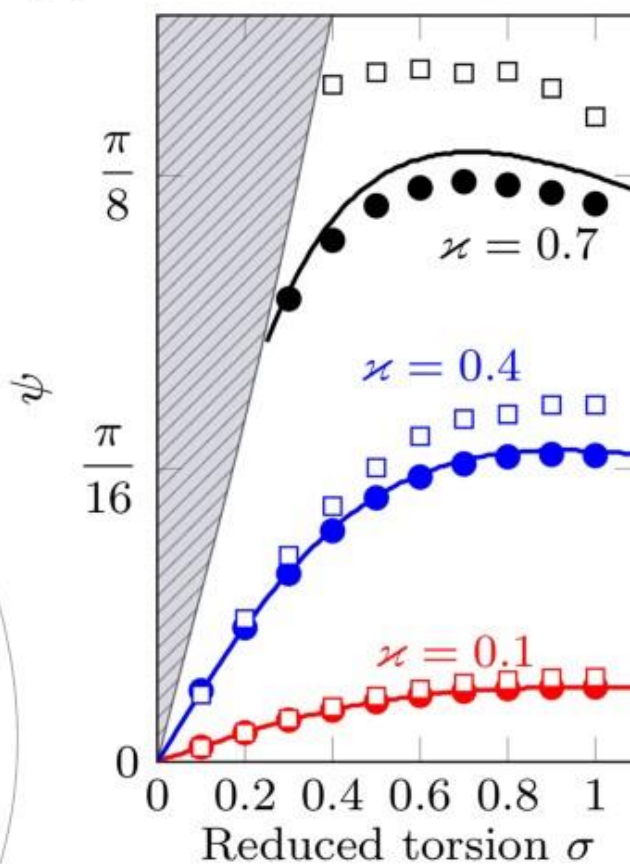
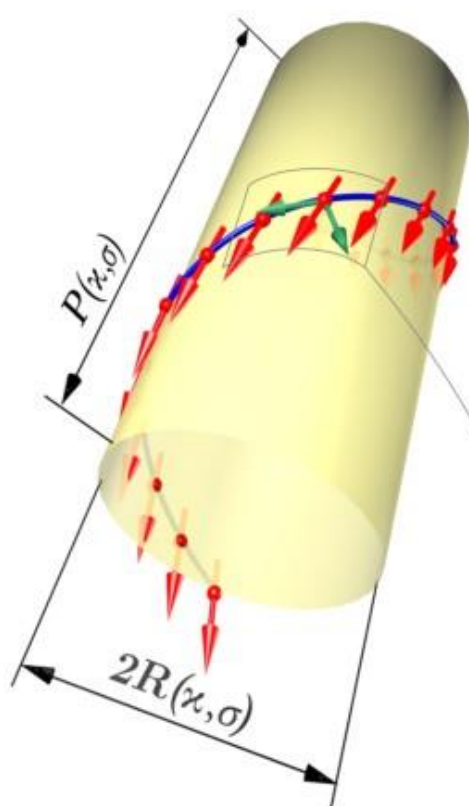
(c) Domain wall in a helix



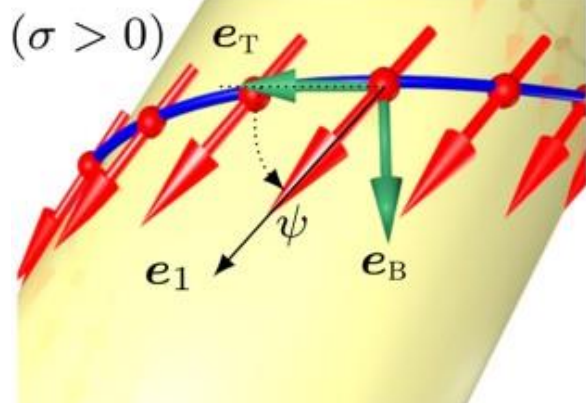
Reduced coordinate  $u$

(a) Schematics

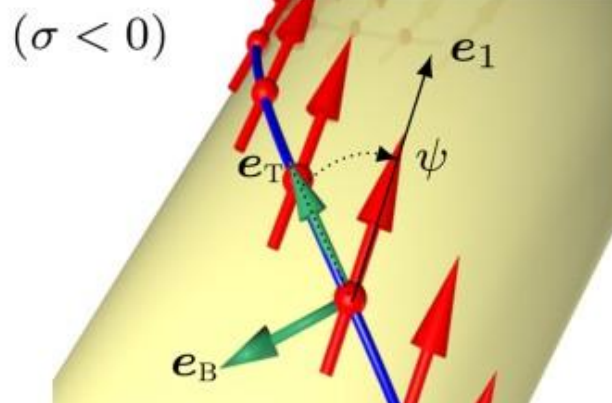
(b) Rotation angle



(c) Right-handed helix

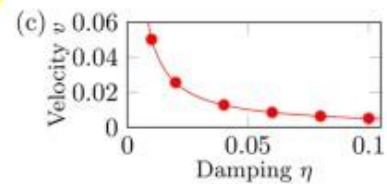
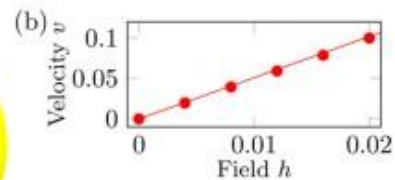
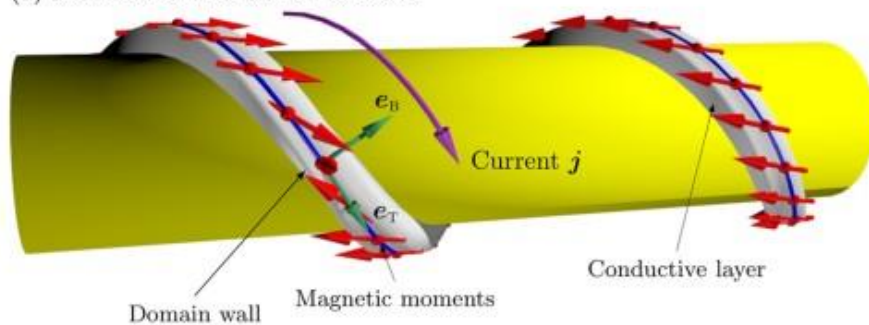


(d) Left-handed helix

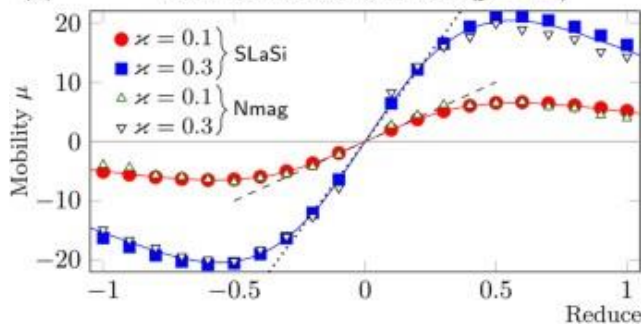




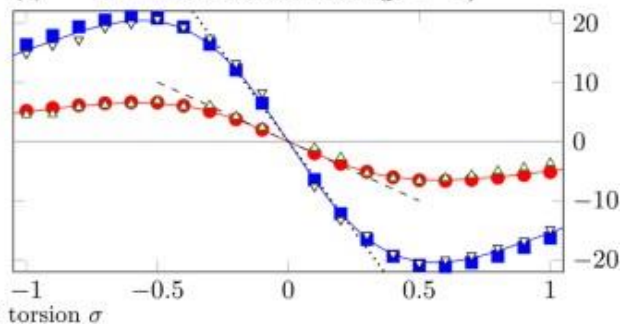
(a) Schematics of SLaSi simulations



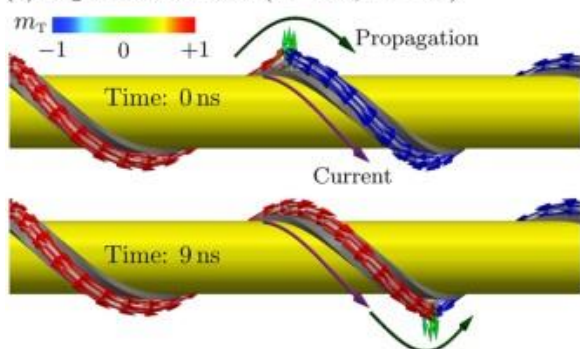
(d) Head-to-head domain wall ( $p = +1$ )



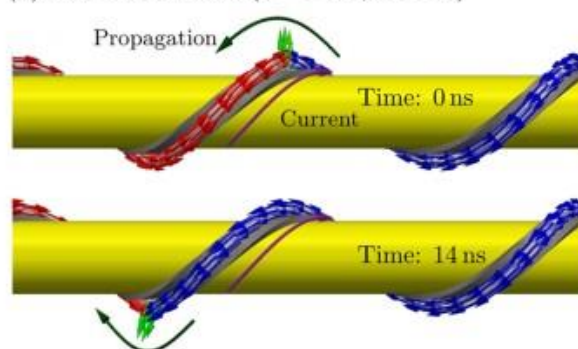
(e) Tail-to-tail domain wall ( $p = -1$ )



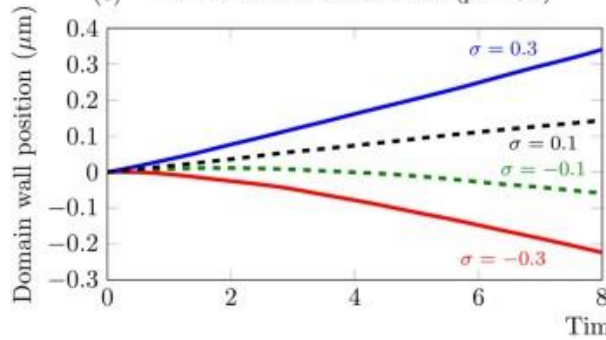
(a) Right-handed helix ( $\sigma = 0.1$ ,  $\mathcal{C} = +1$ )



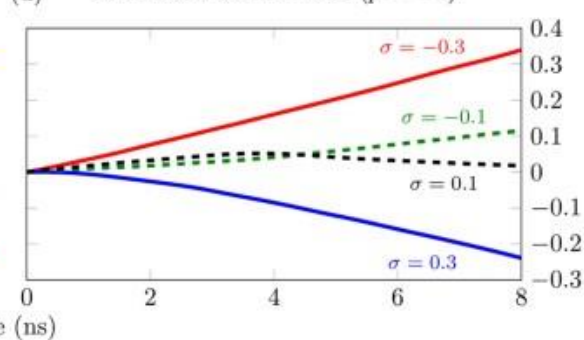
(b) Left-handed helix ( $\sigma = -0.1$ ,  $\mathcal{C} = -1$ )



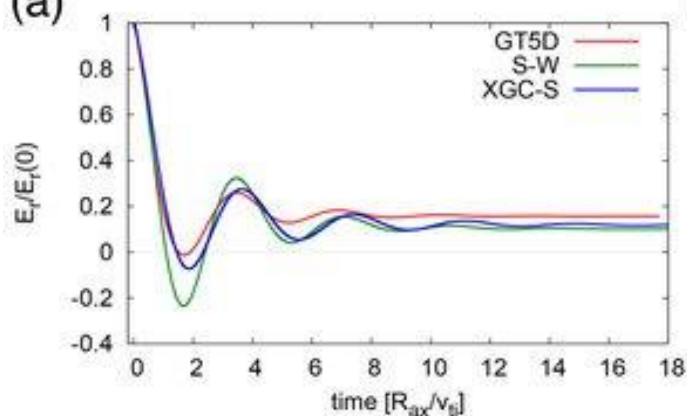
(c) Head-to-head domain wall ( $p = +1$ )



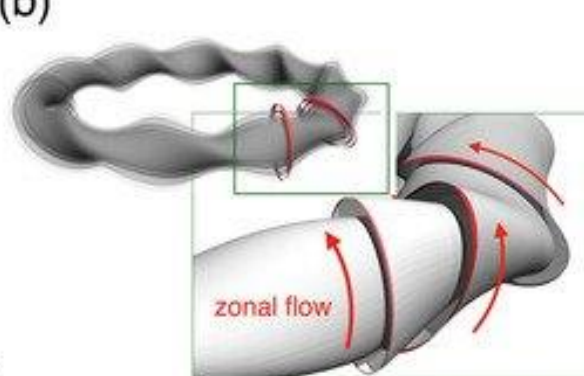
(d) Tail-to-tail domain wall ( $p = -1$ )

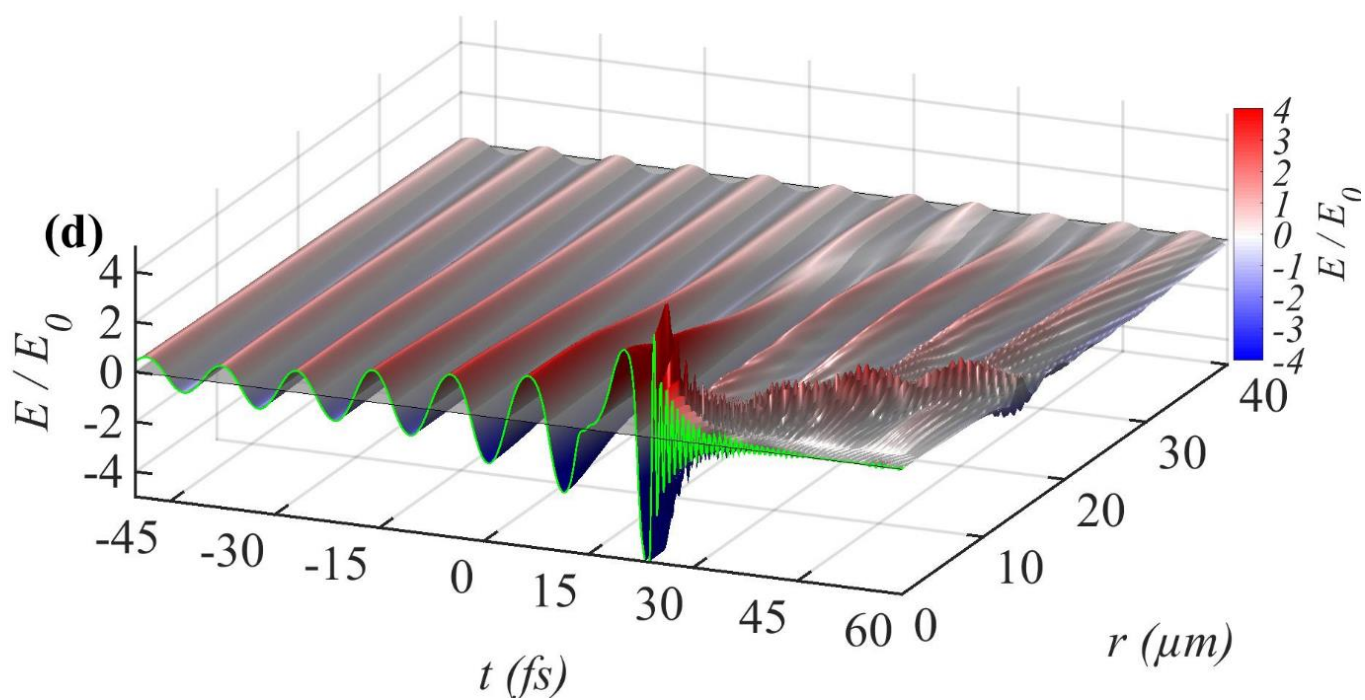
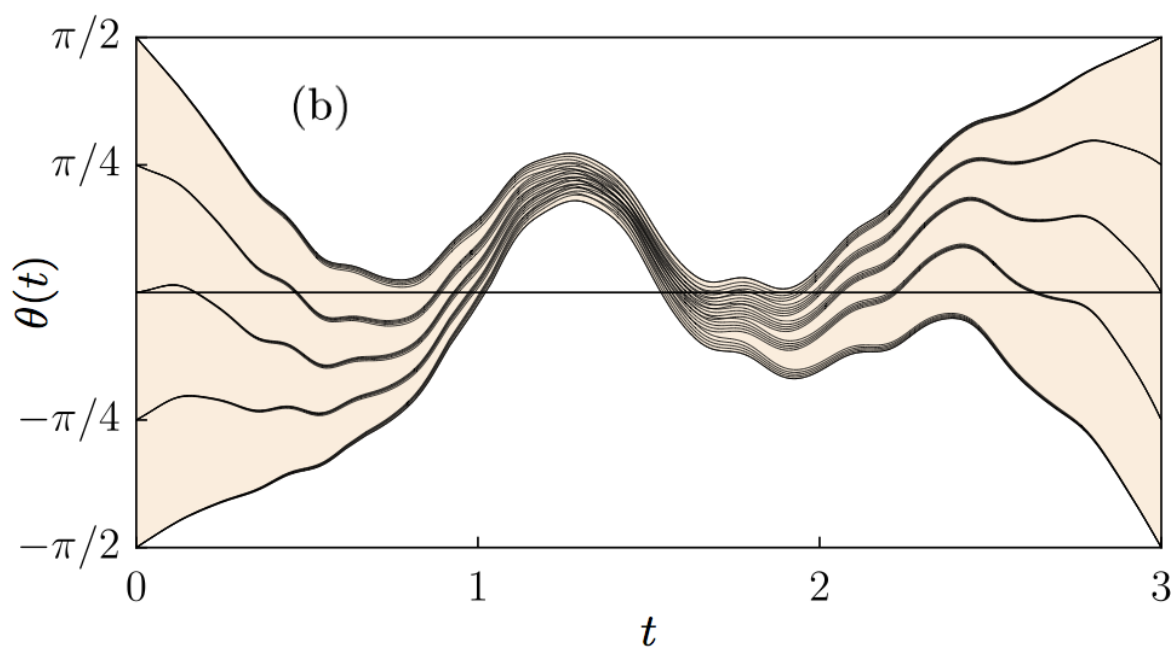
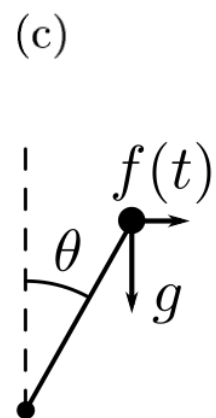
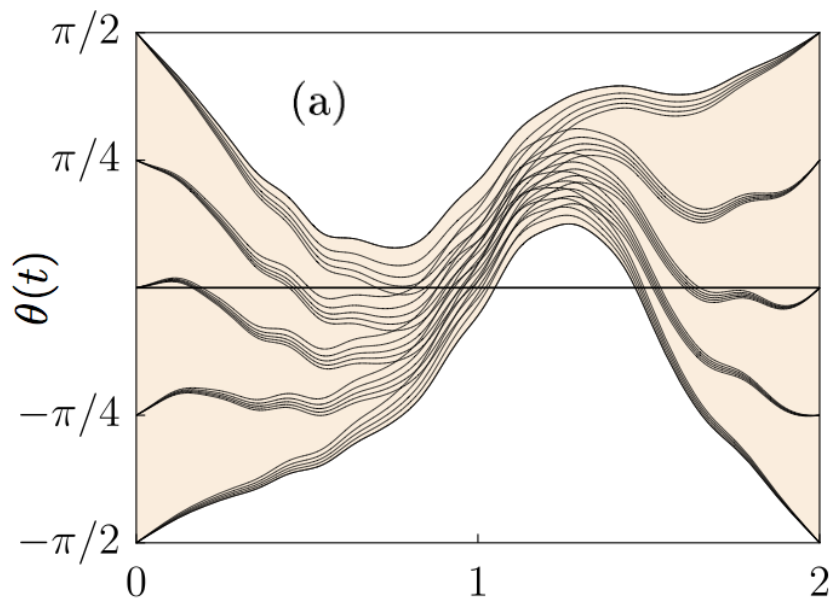


(a)

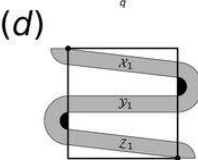
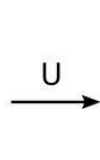
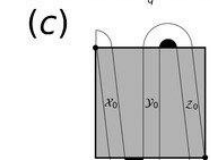
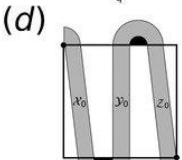
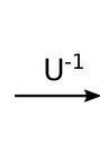
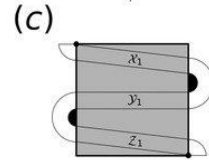
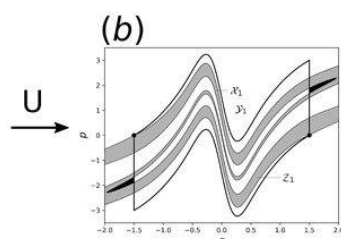
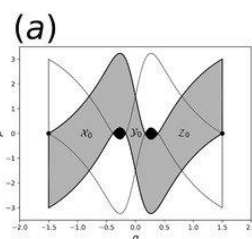
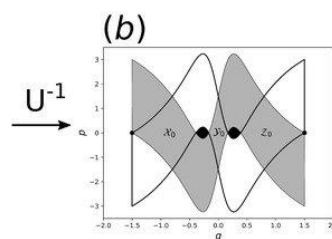
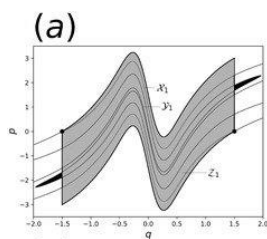
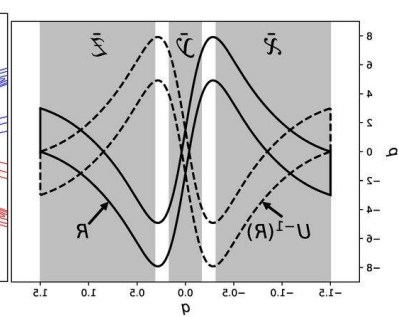
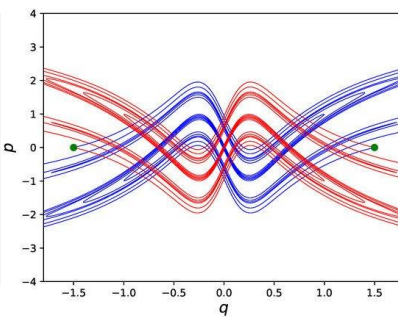
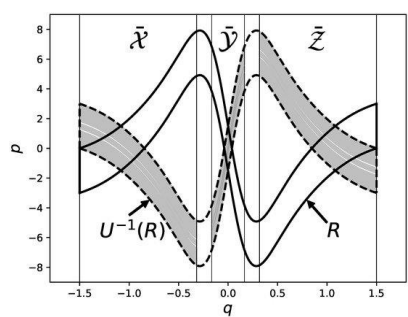
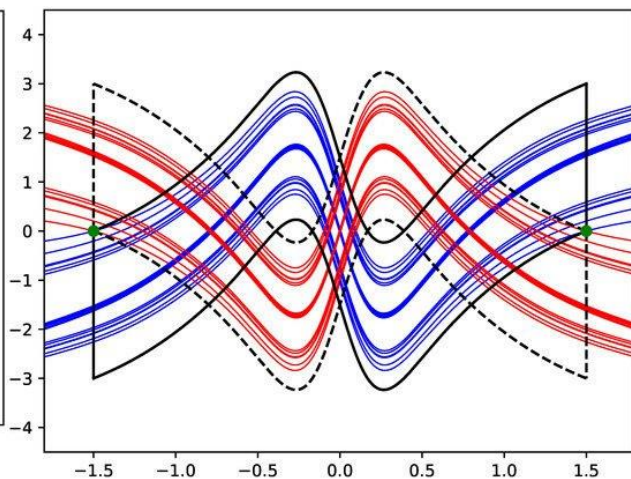
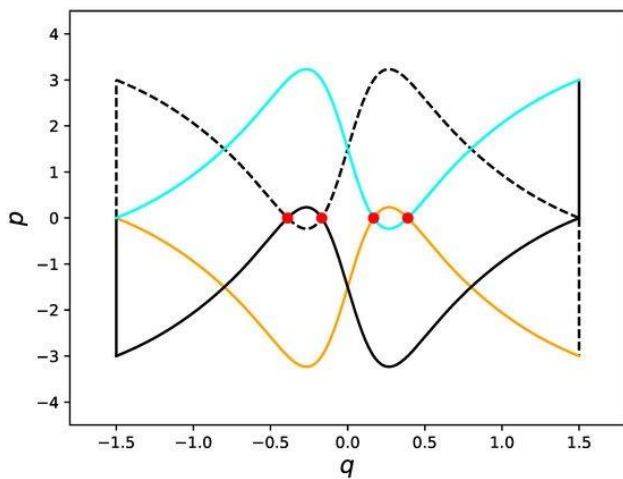
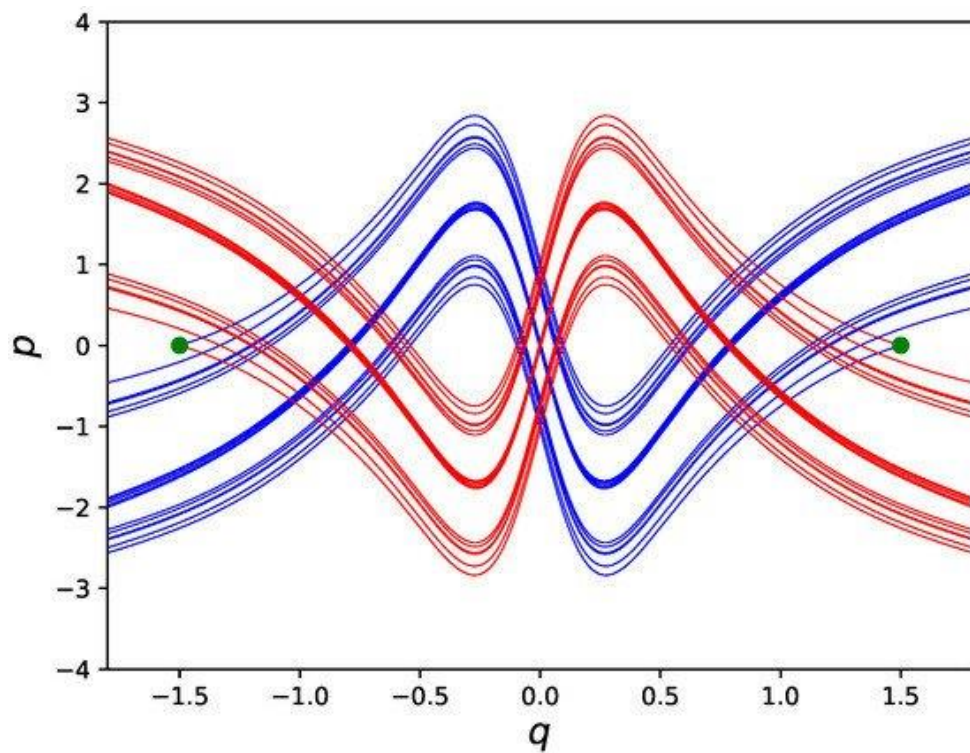


(b)

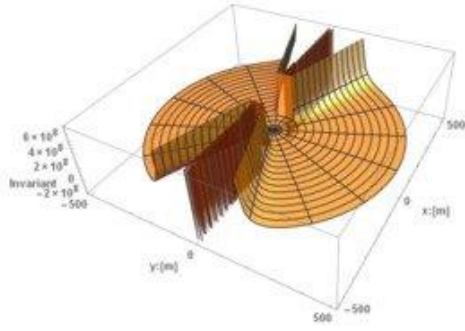




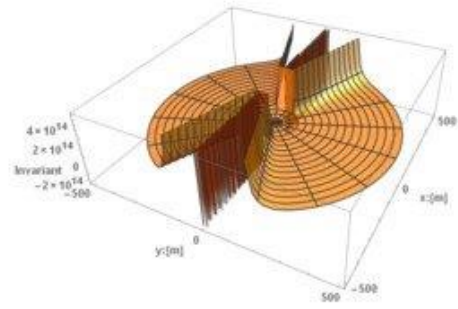




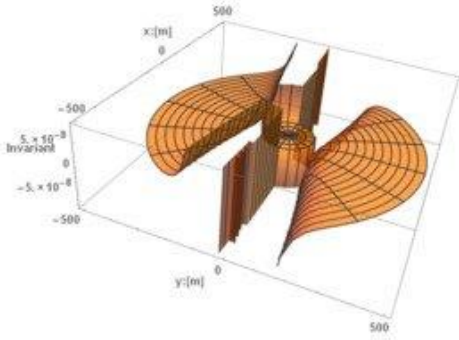




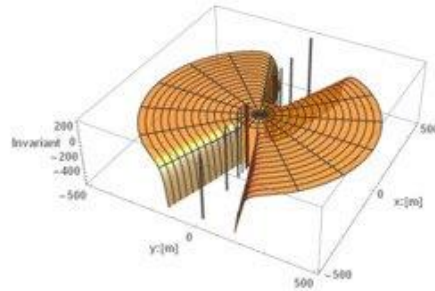
(c)  $r_2$  and  $t = 10$  s



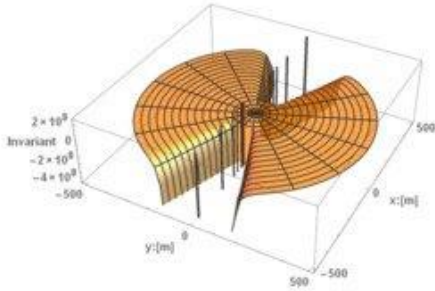
(d)  $r_2$  and  $t = 100$  s



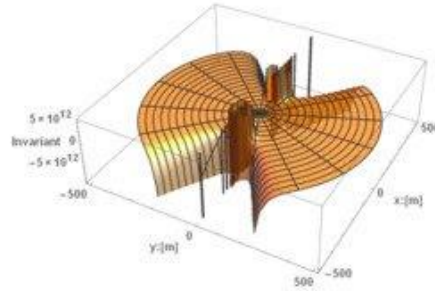
(a)  $w_2$  and  $t = 0$  s



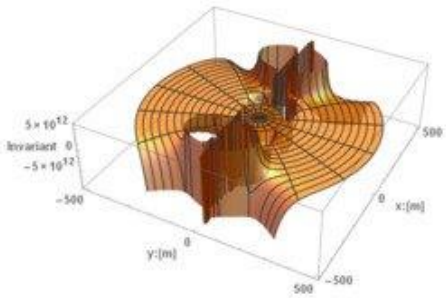
(b)  $w_2$  and  $t = 1.0$  s



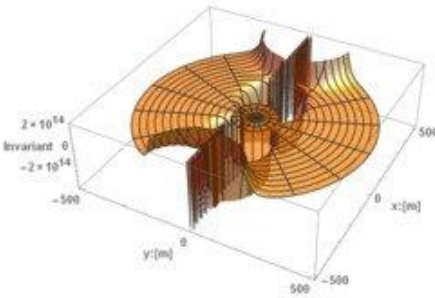
(c)  $w_2$  and  $t = 10.0$  s



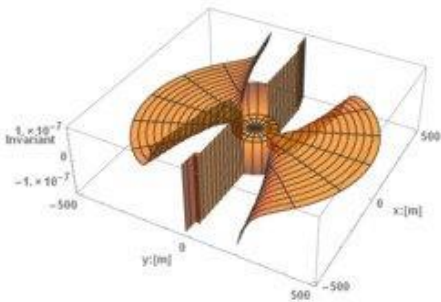
(d)  $w_2$  and  $t = 100.0$  s



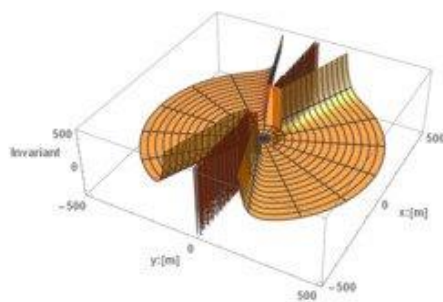
(e)  $w_2$  and  $t = 200.0$  s



(f)  $w_2$  and  $t = 300.0$  s

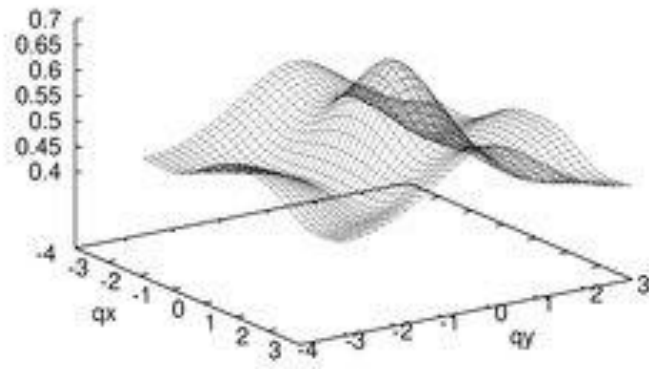


(a)  $r_2$  and  $t = 0.0$  s

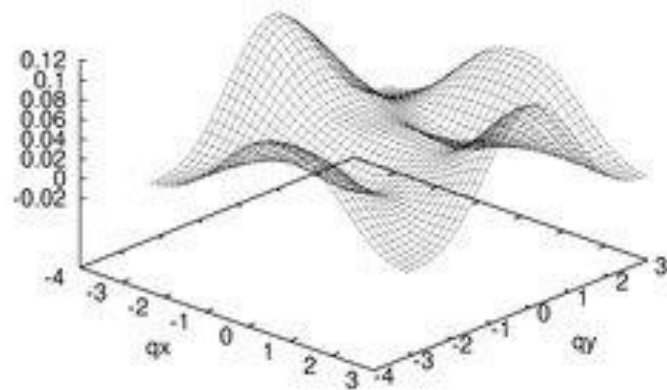


(b)  $r_2$  and  $t = 1$  s

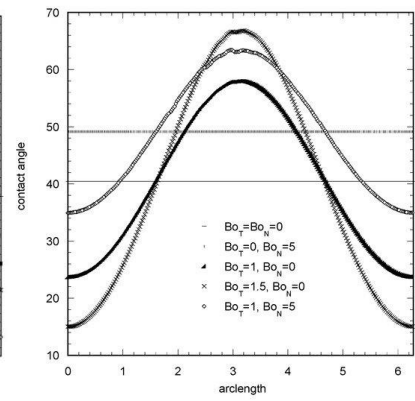
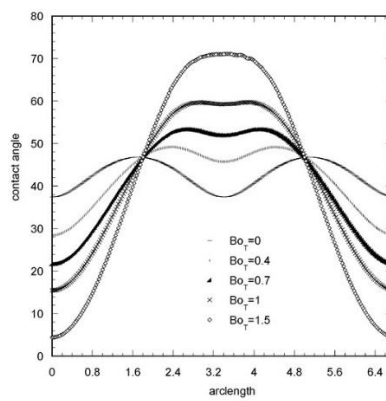
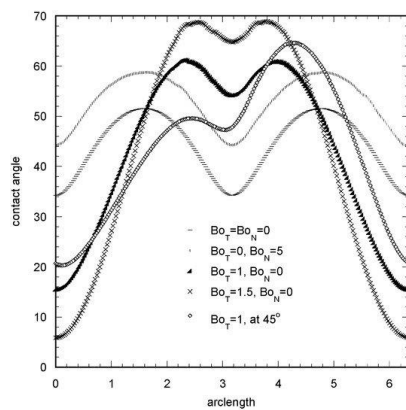
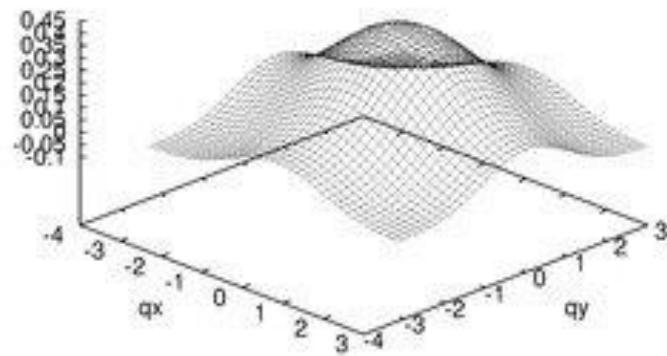
a)

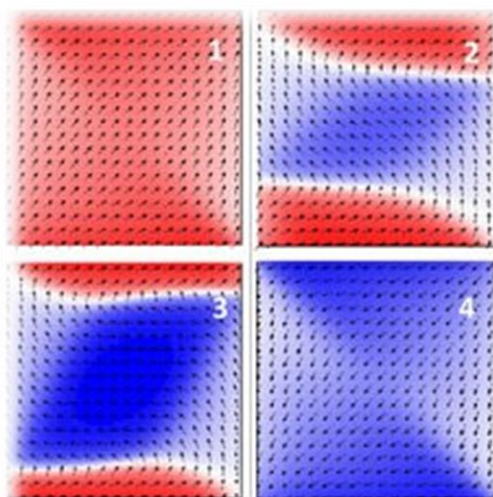


b)

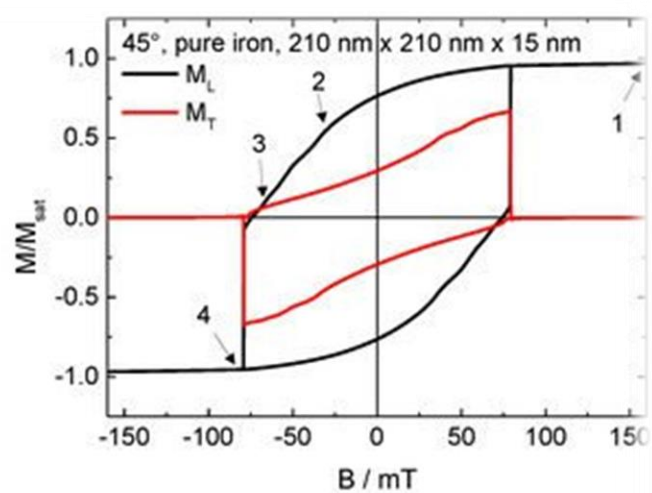


c)

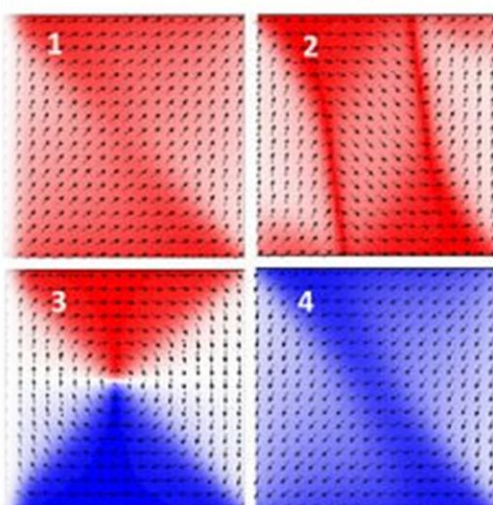




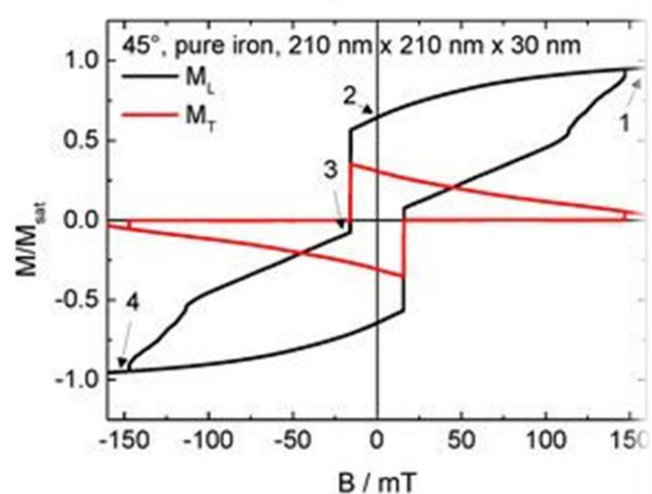
(a)



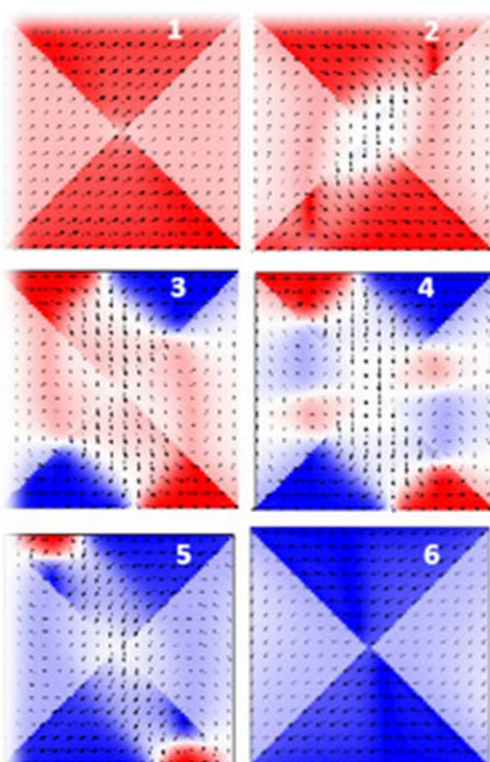
(b)



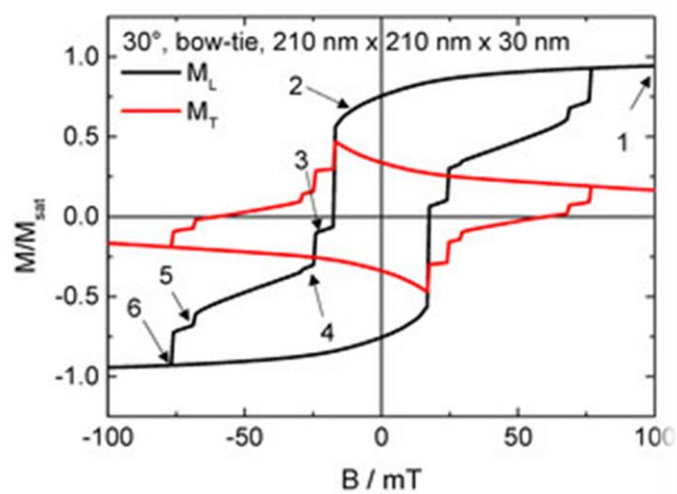
(c)



(d)

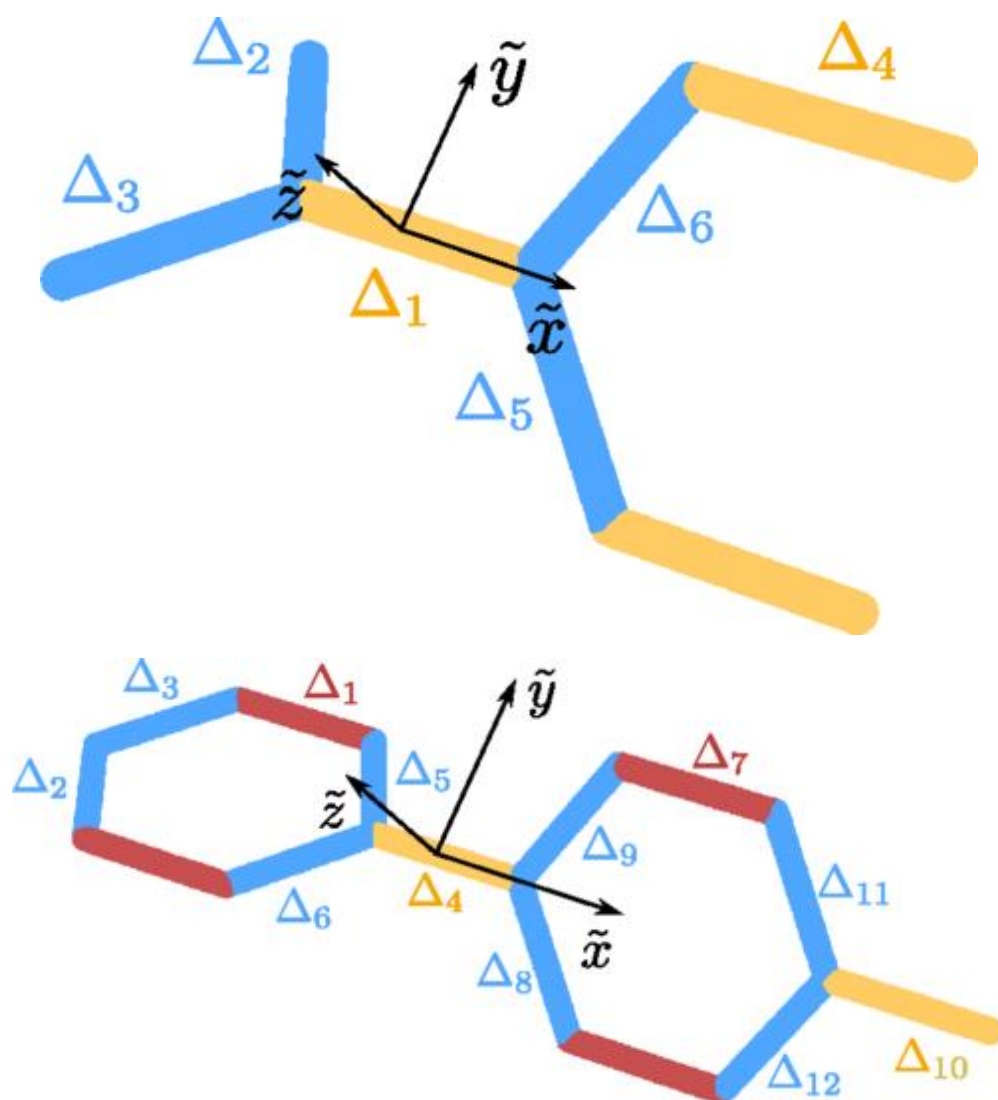
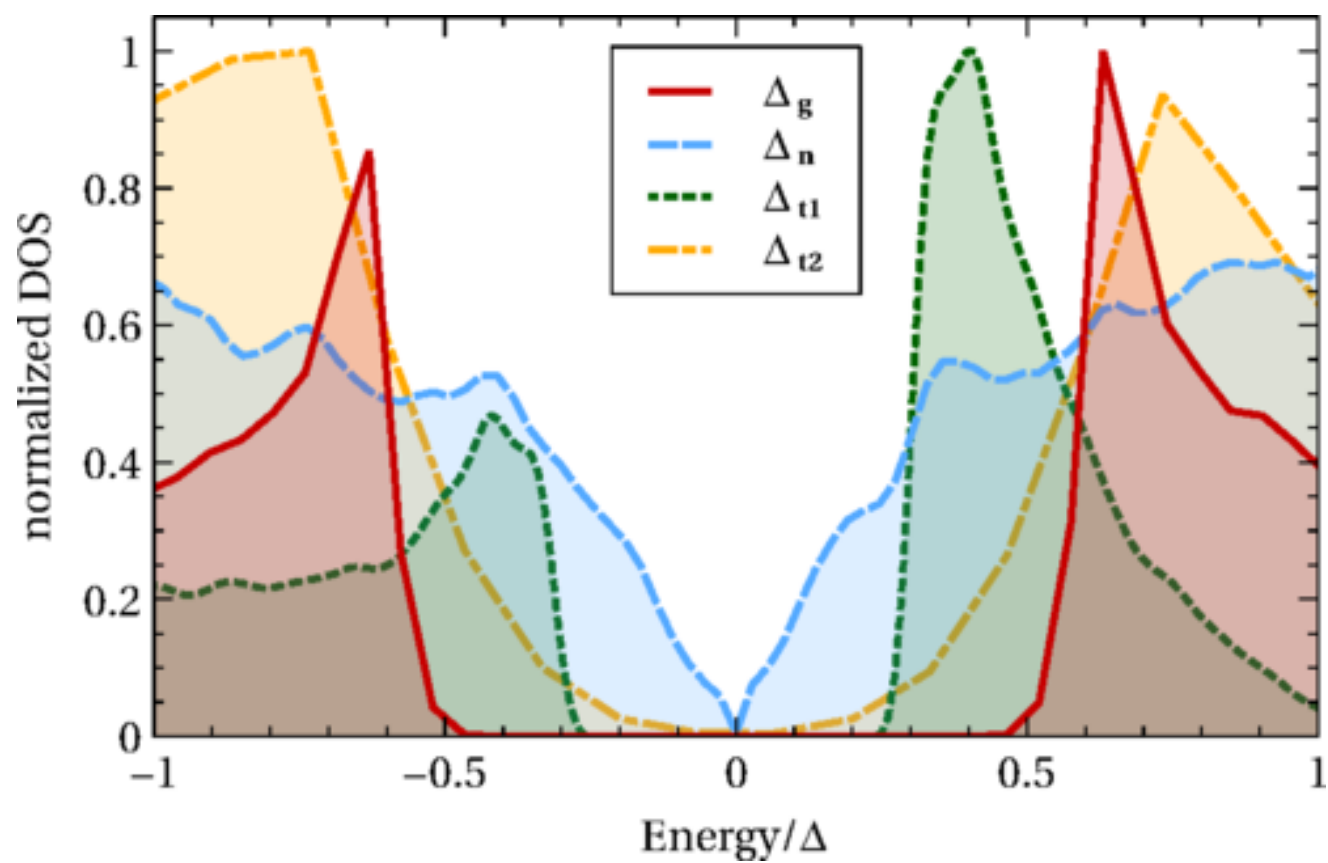


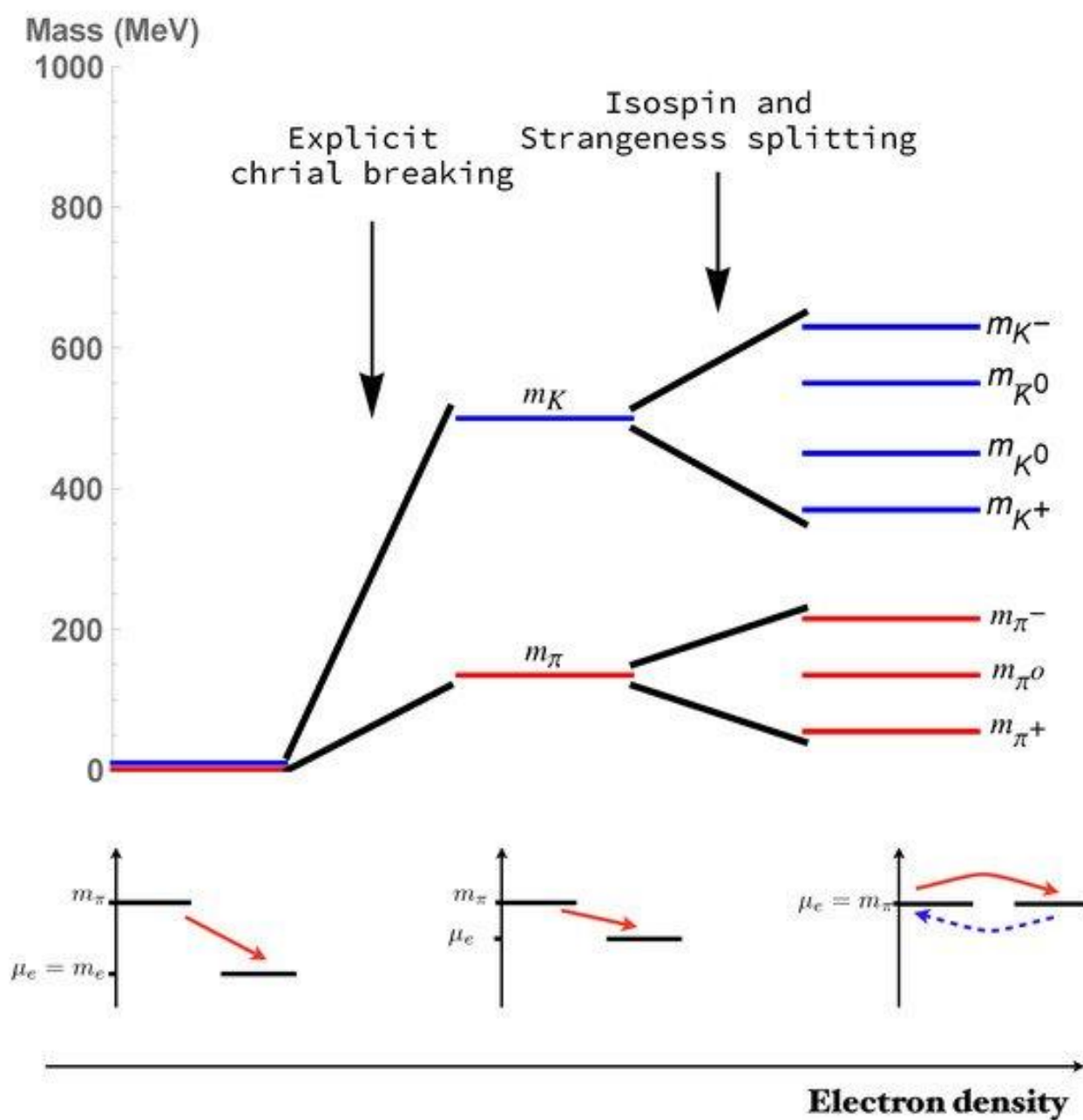
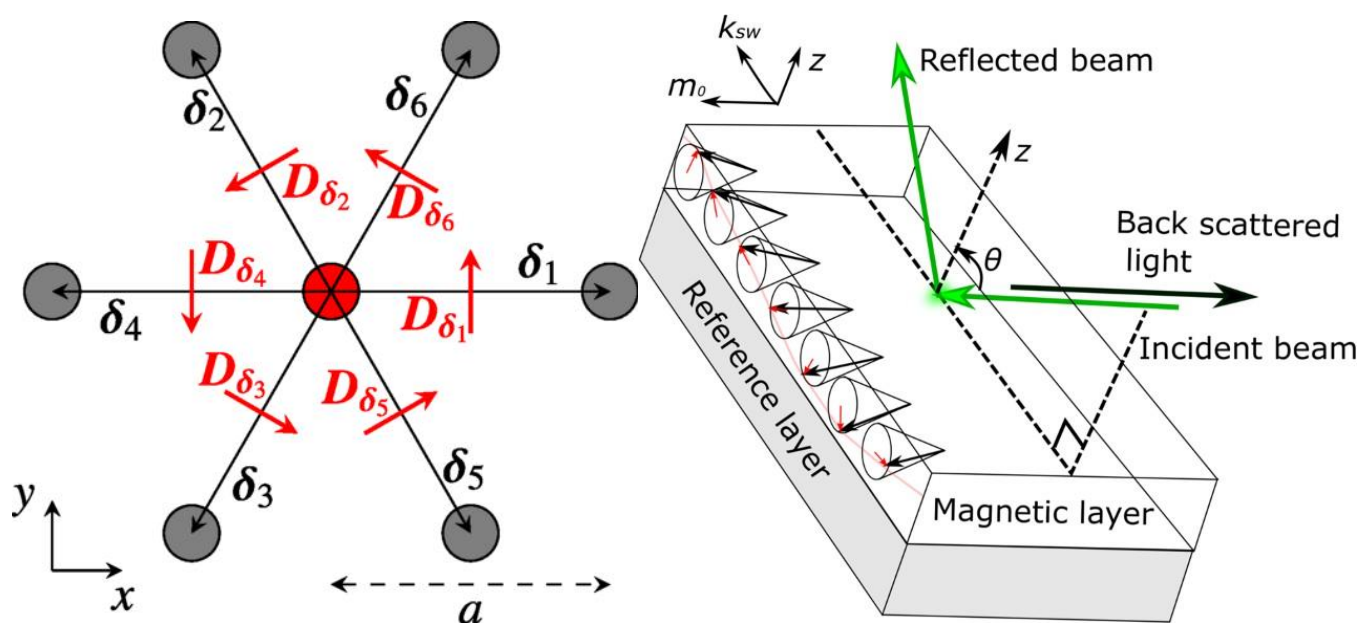
(a)

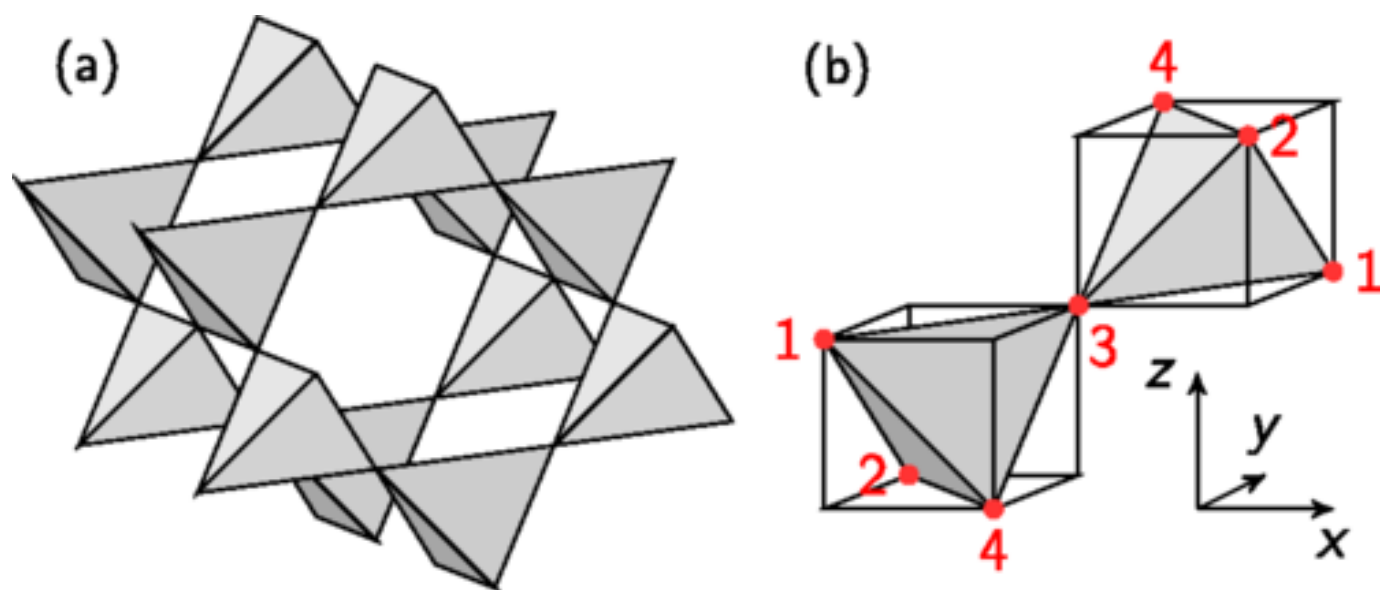
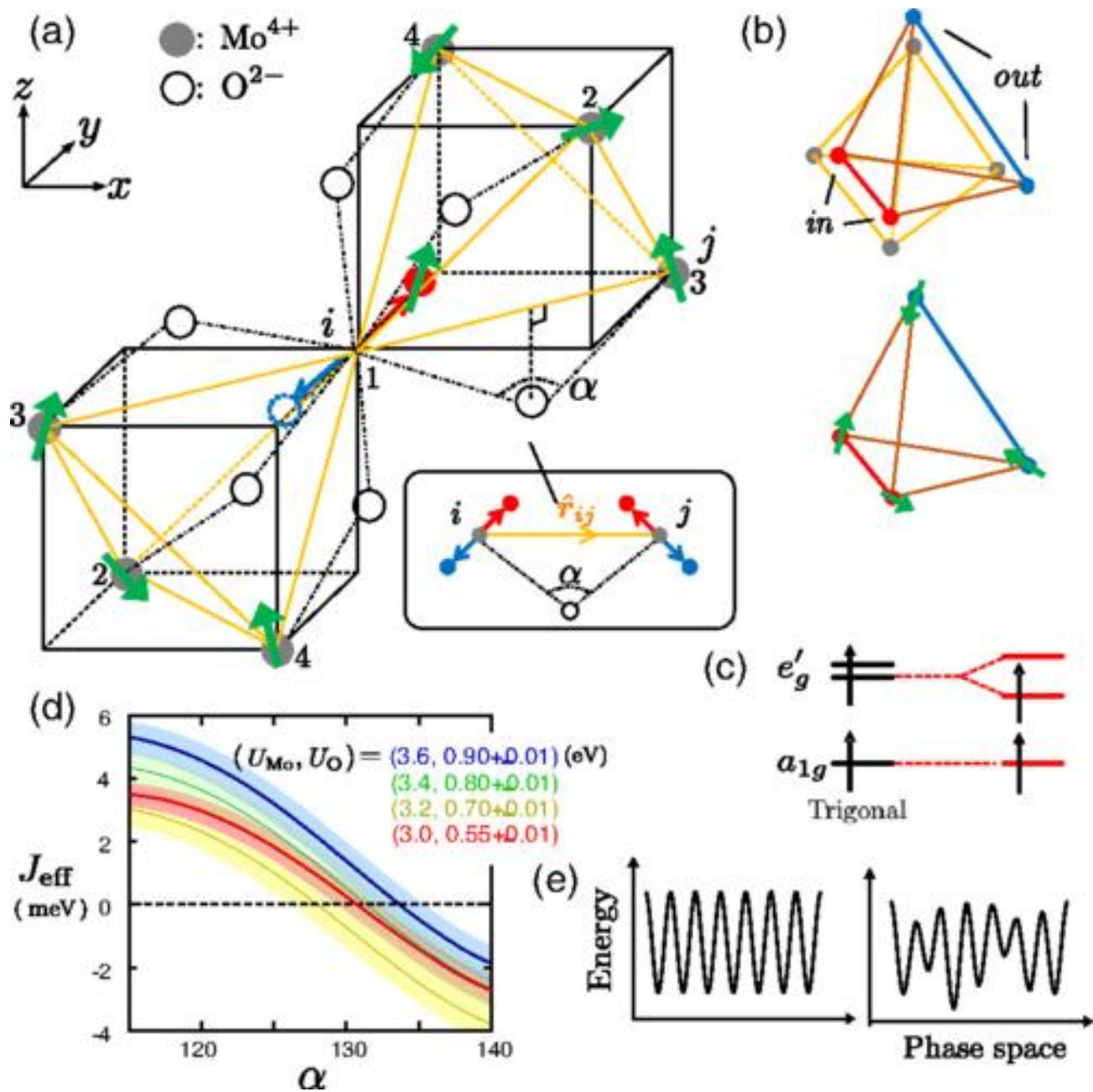


(b)

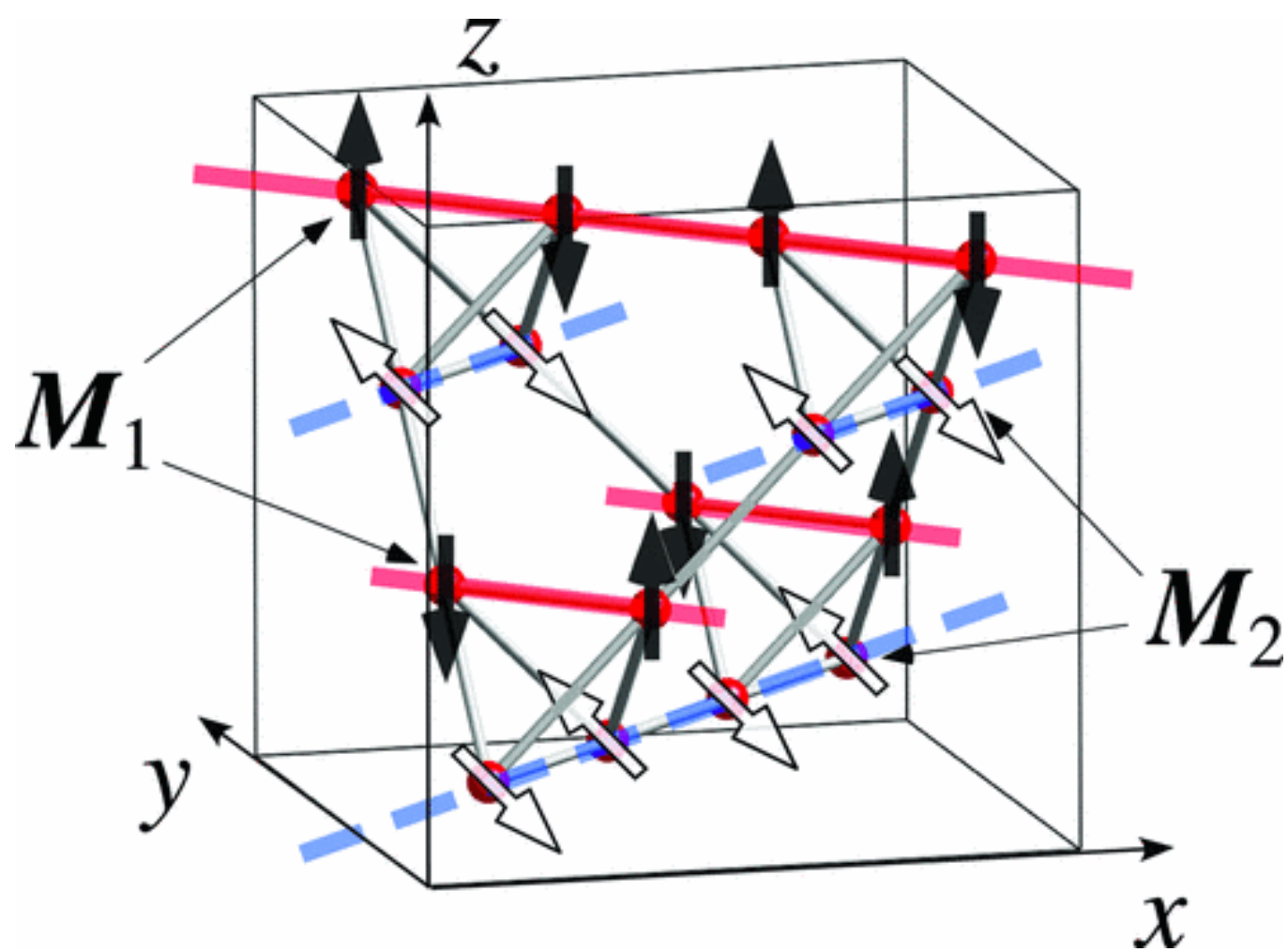
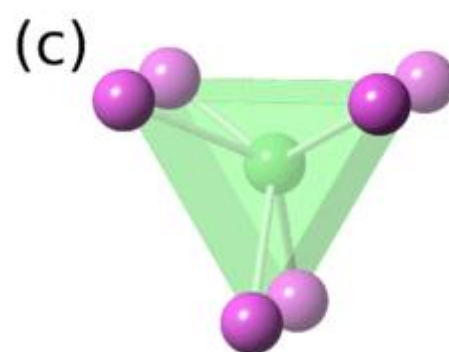
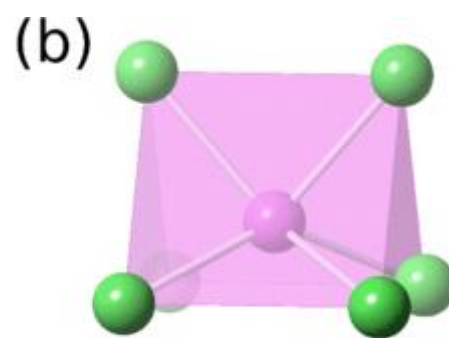
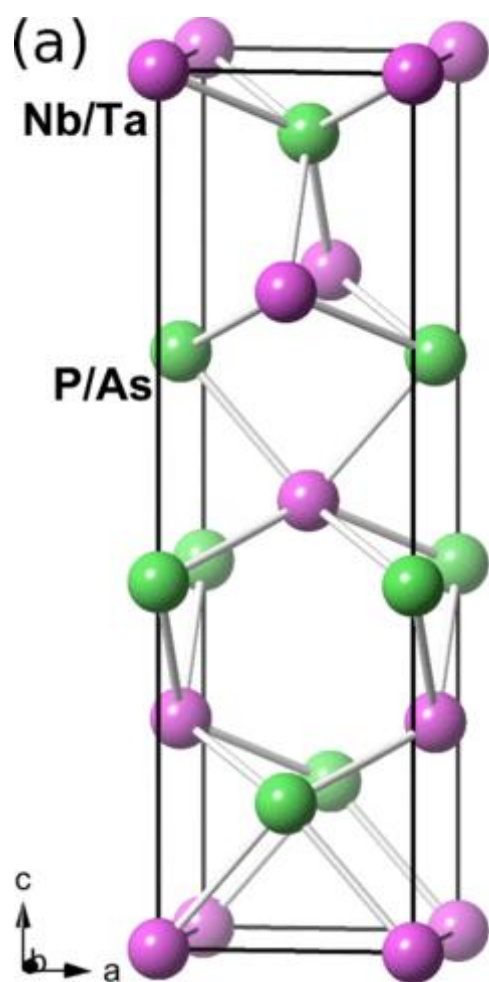


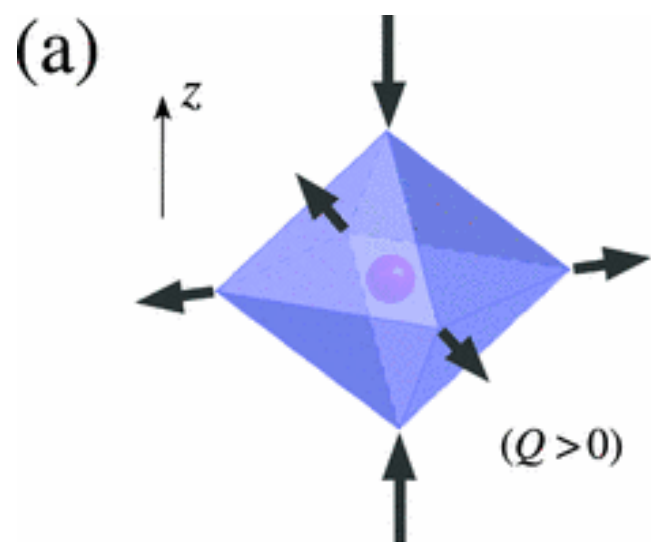








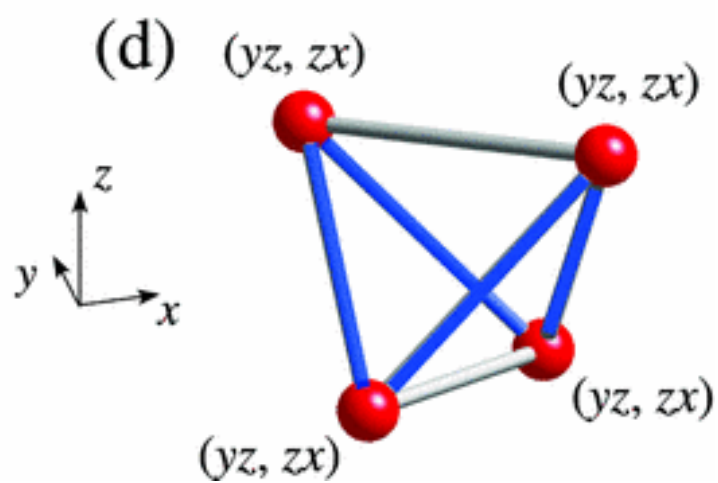
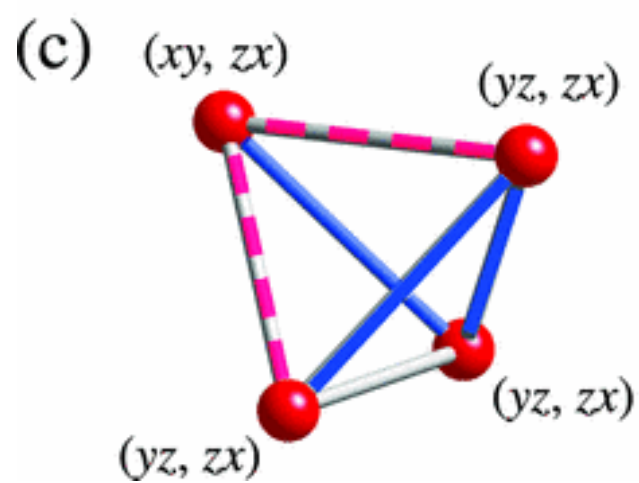
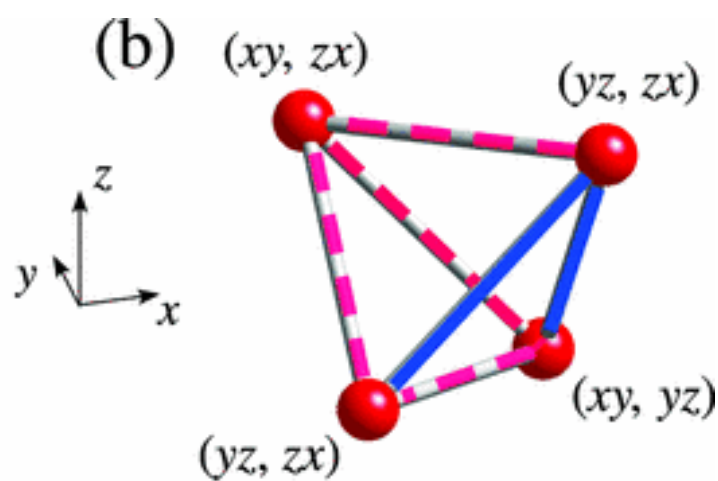
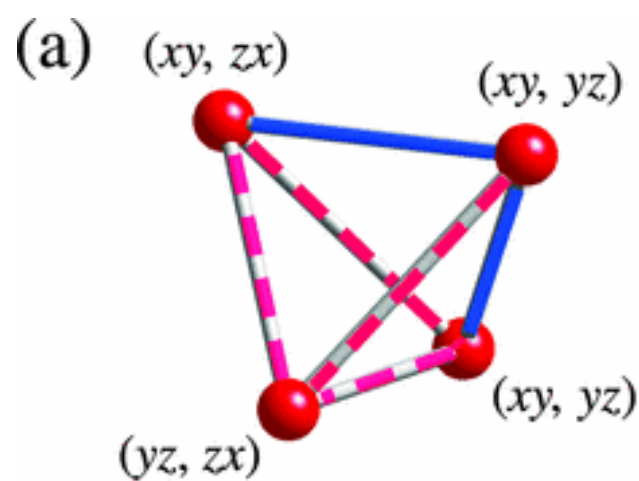
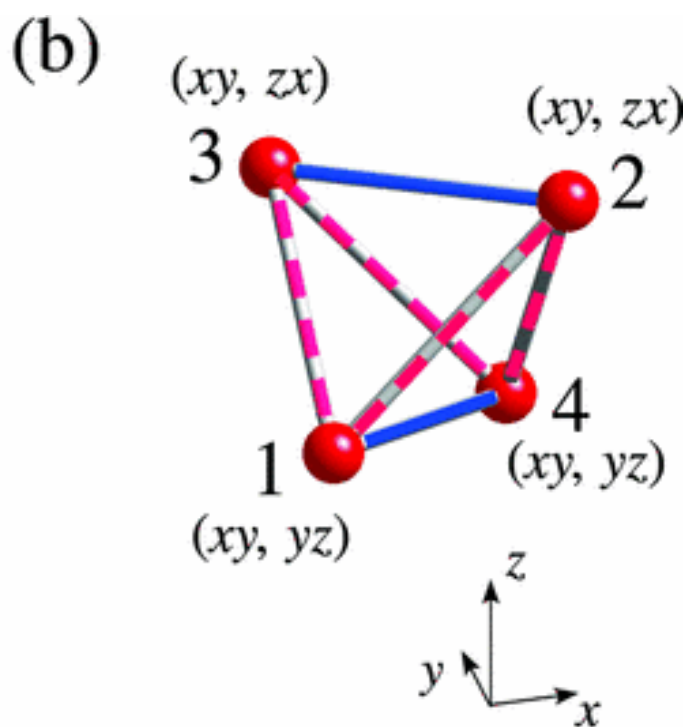


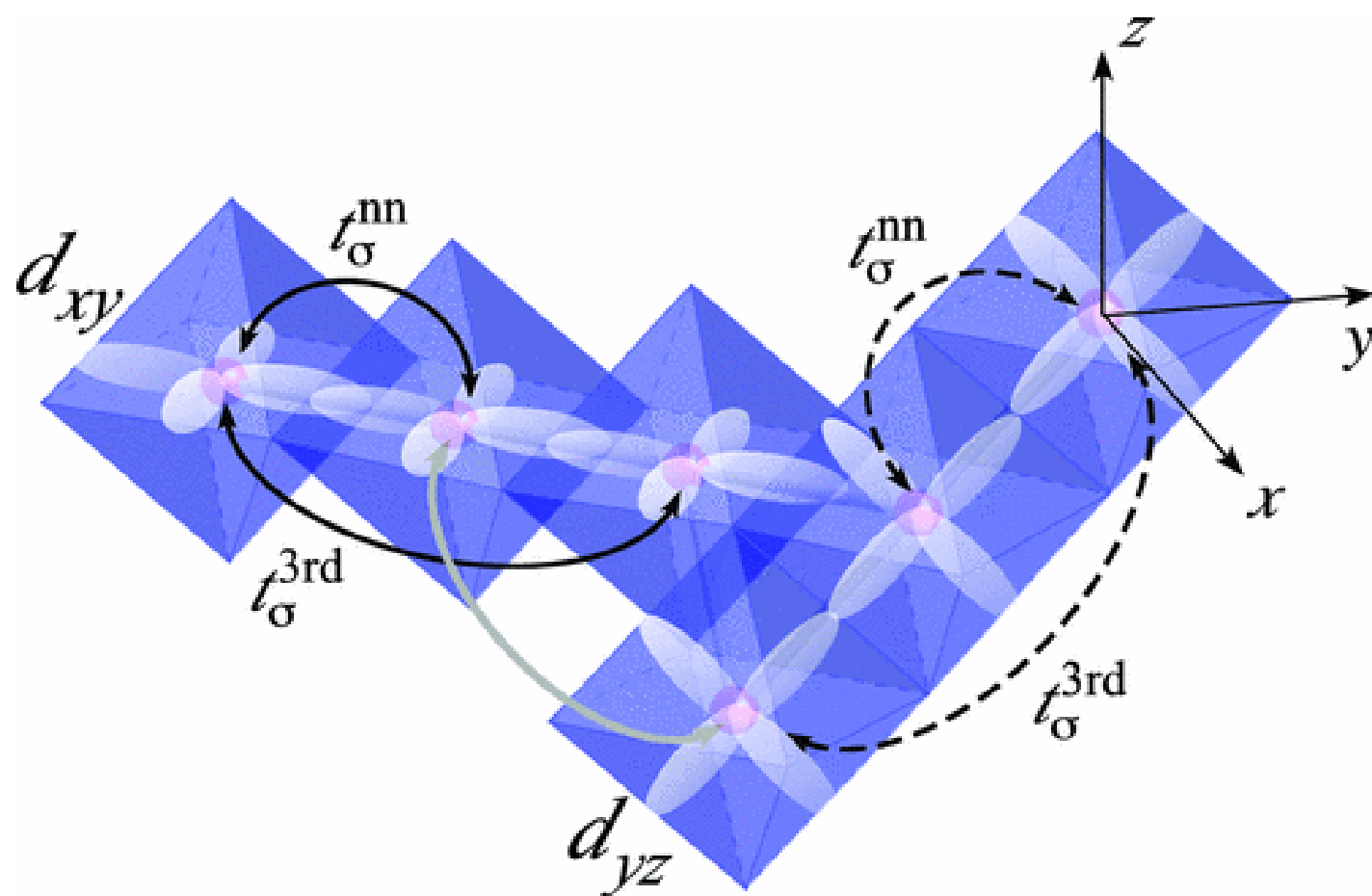
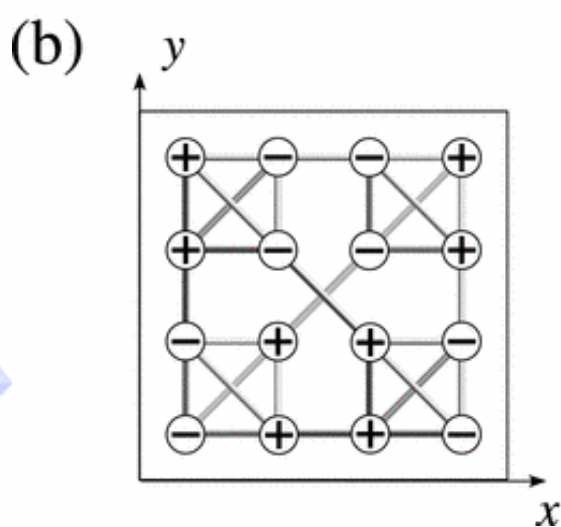
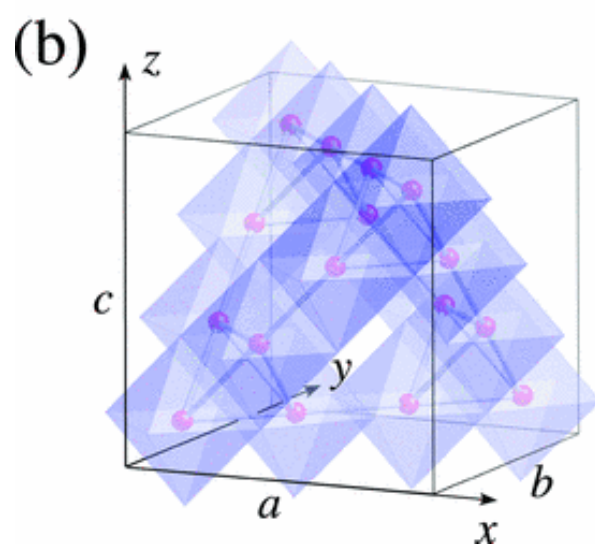
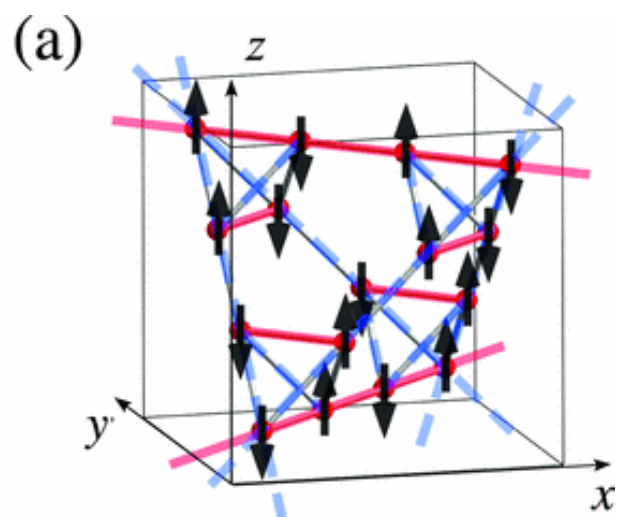
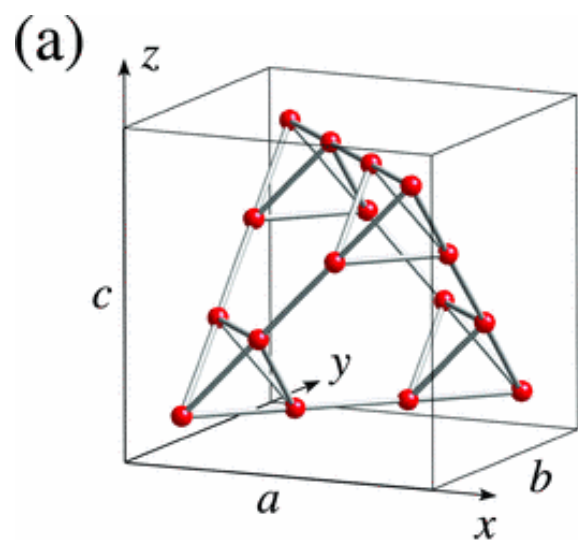


energy ↑

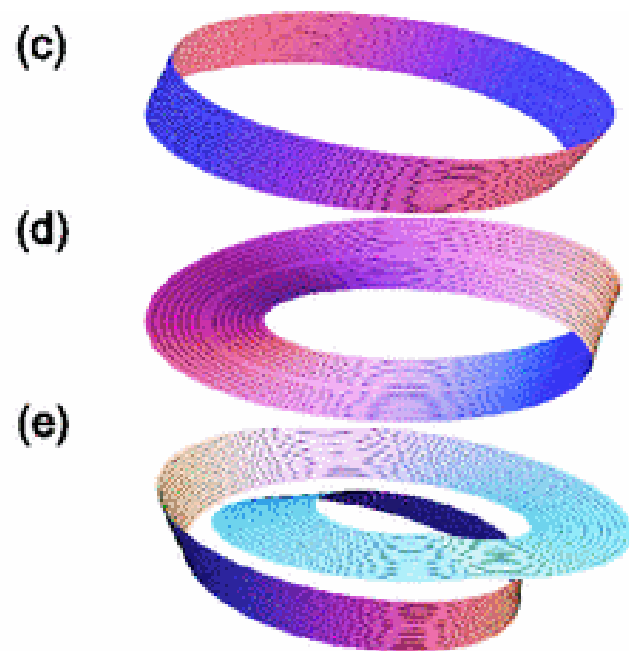
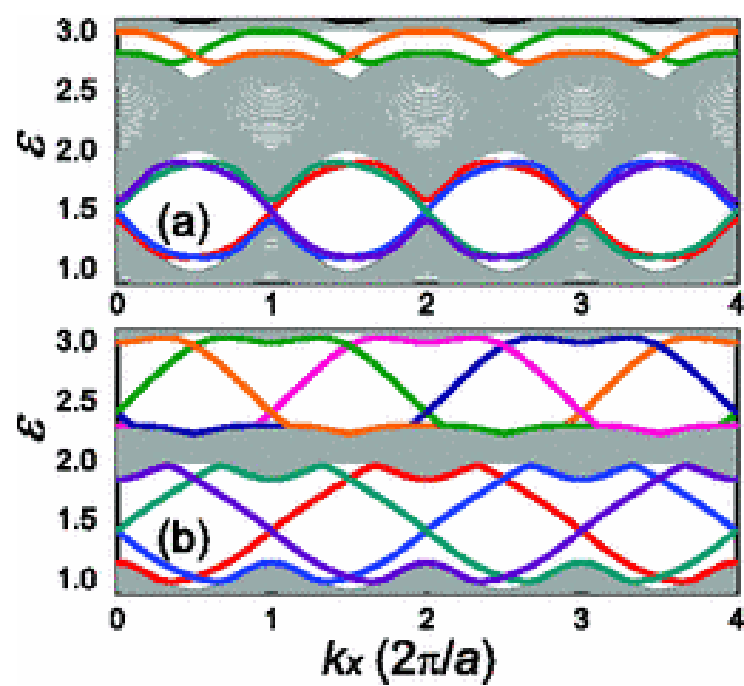
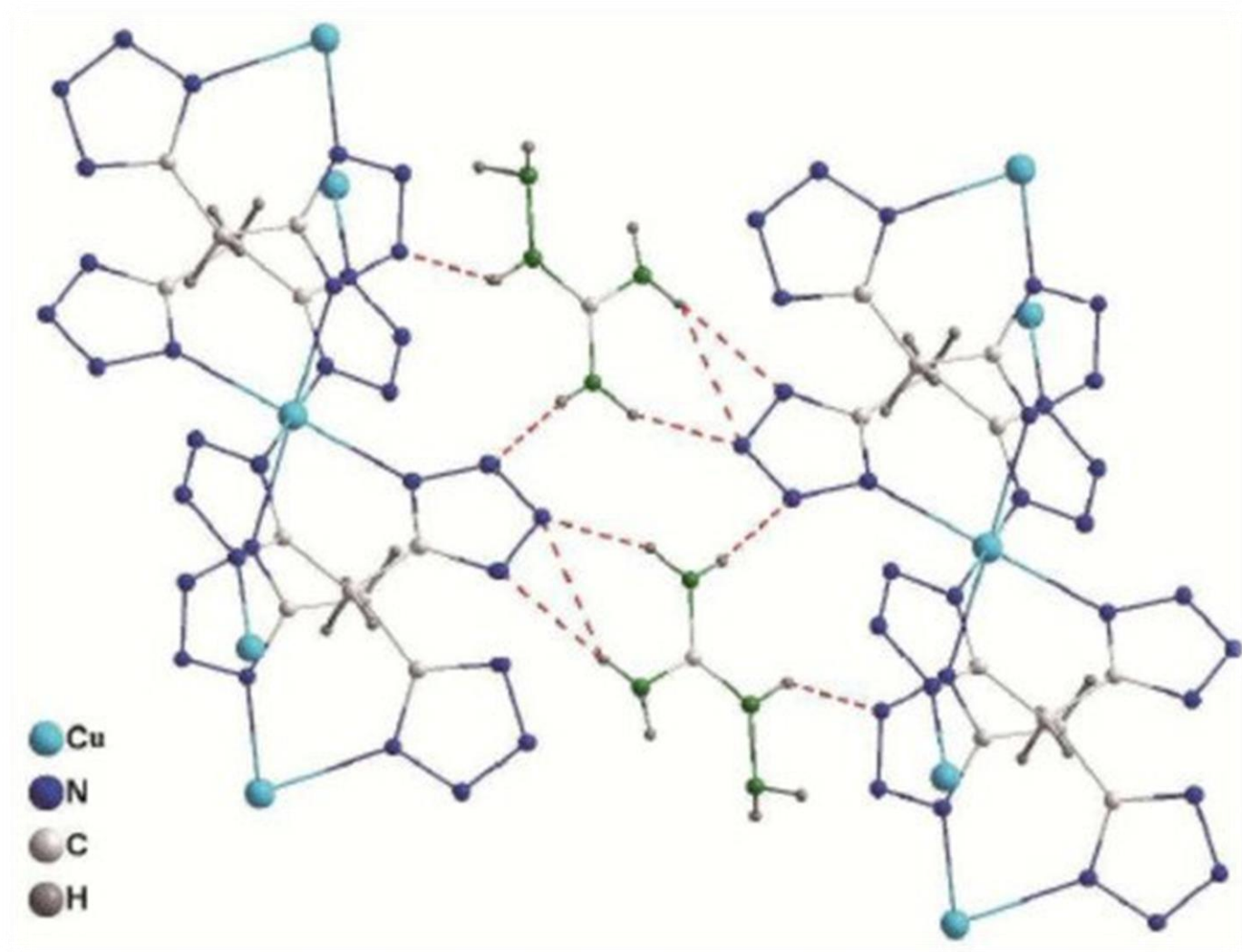
==  $yz, zx$

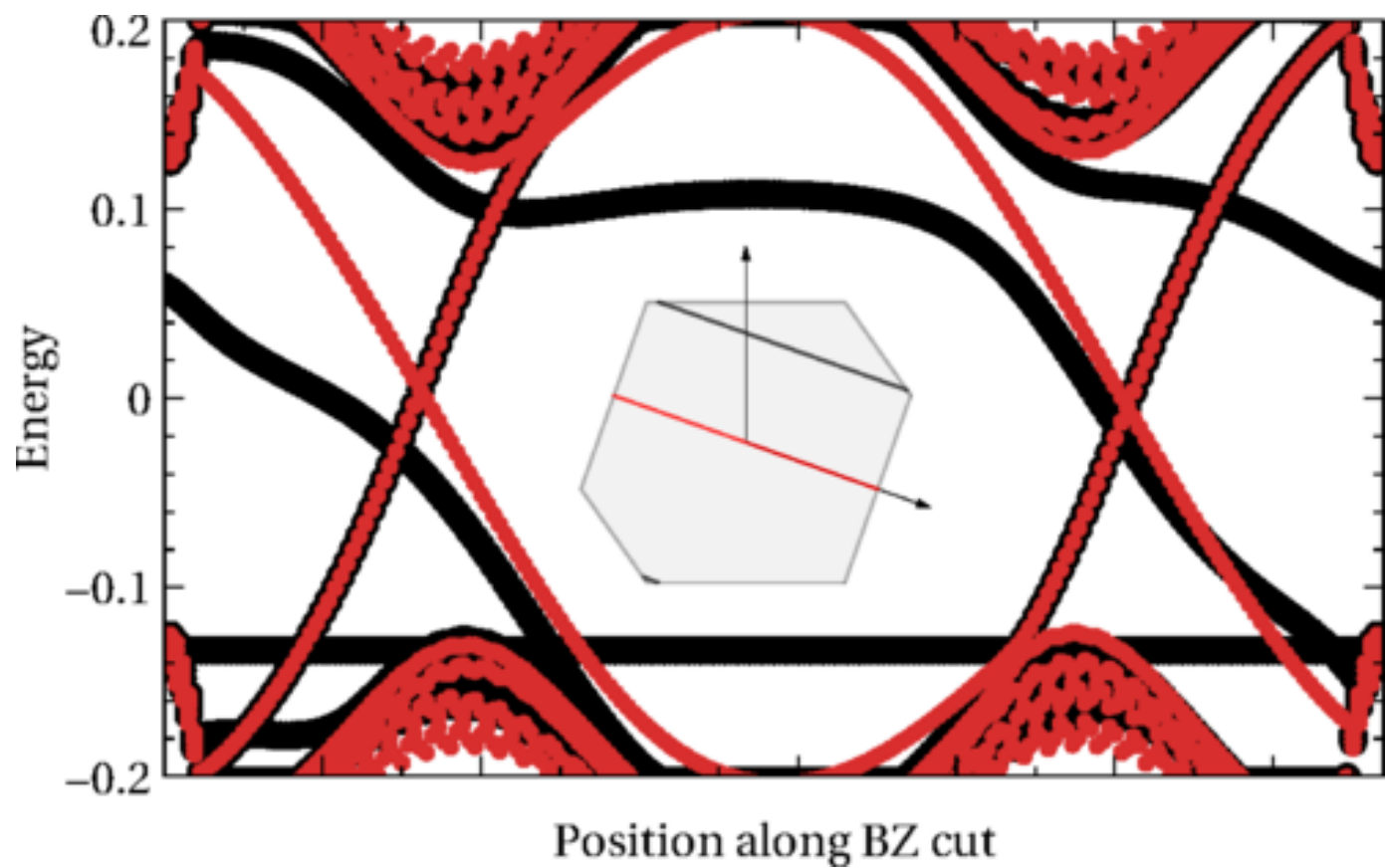
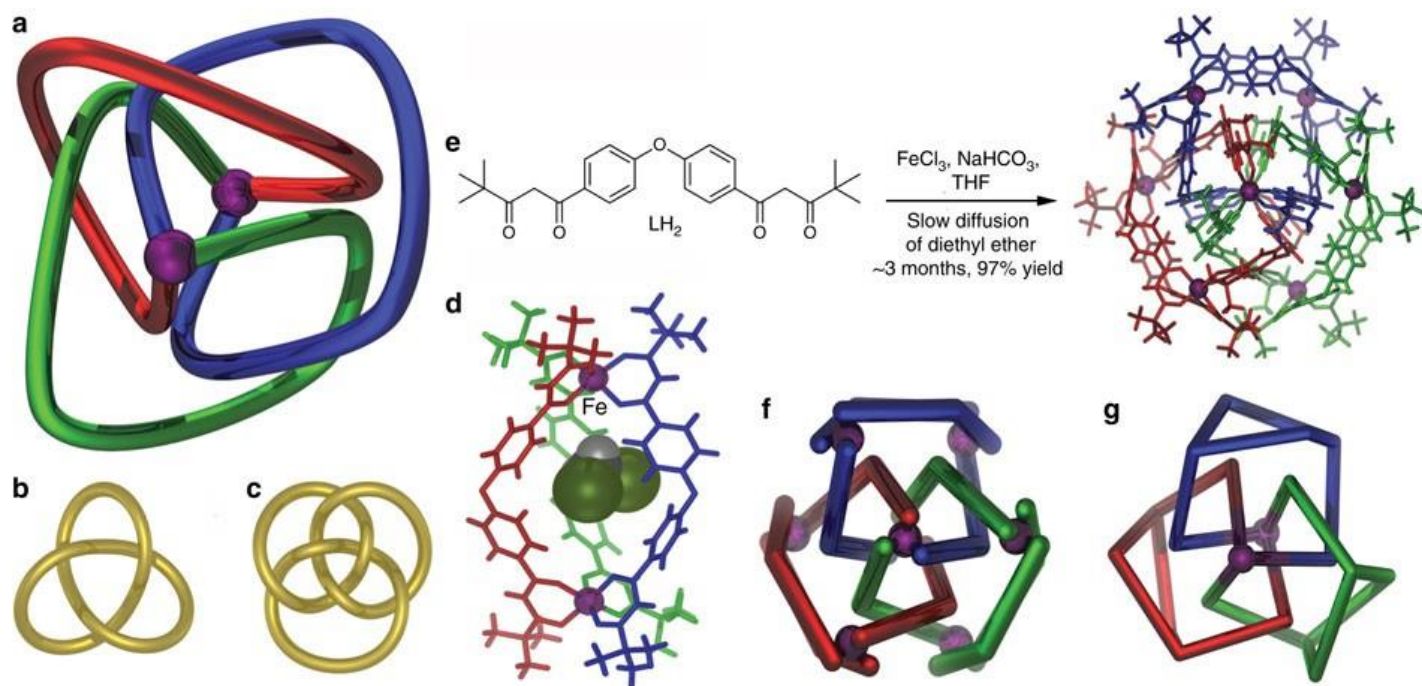
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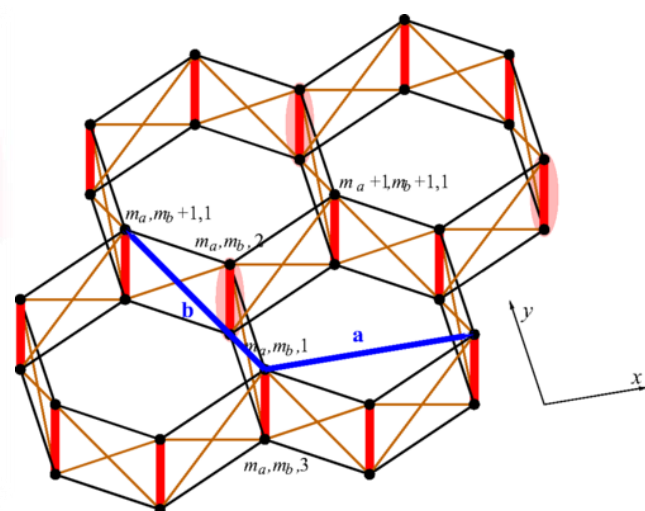
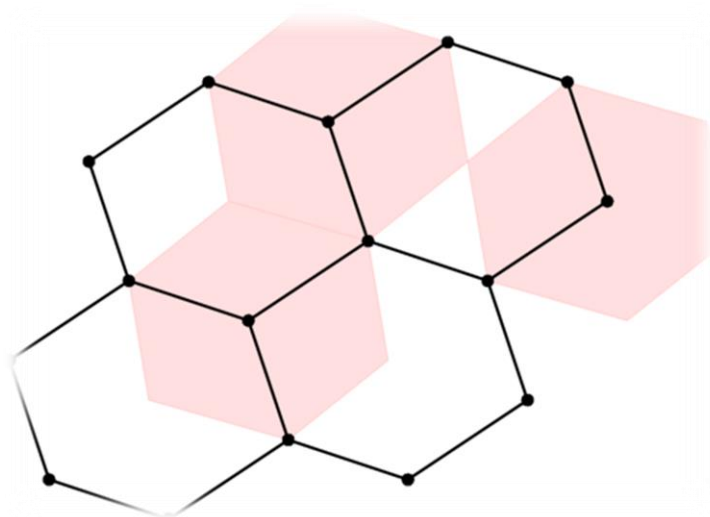
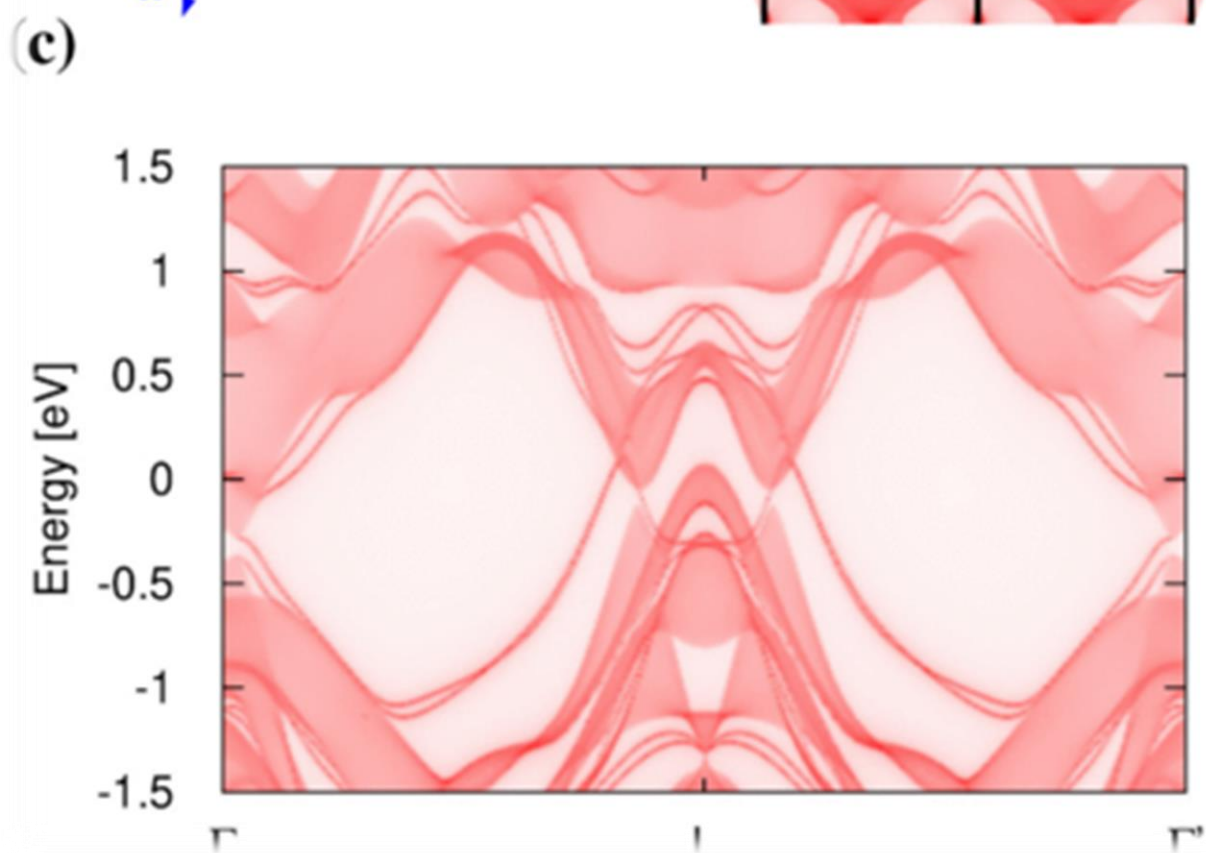
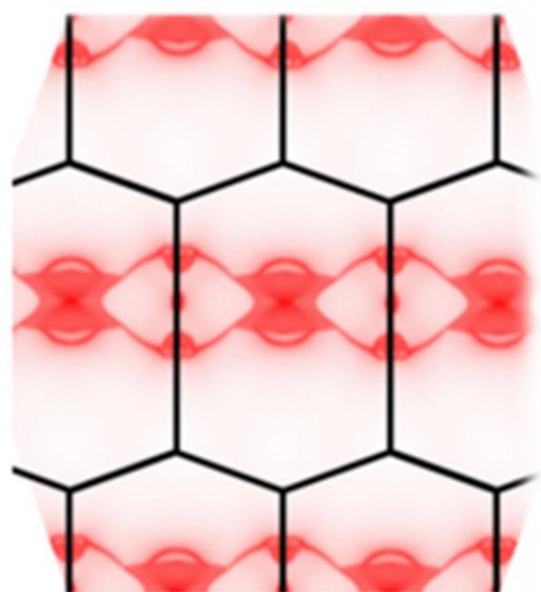
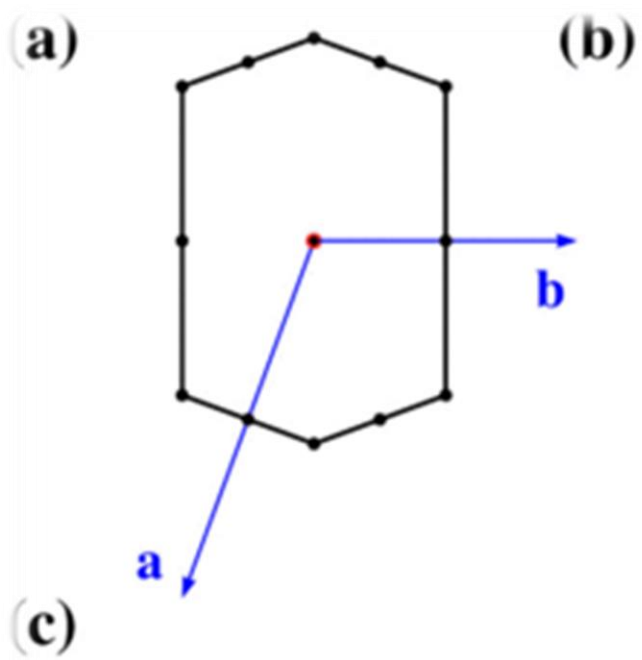




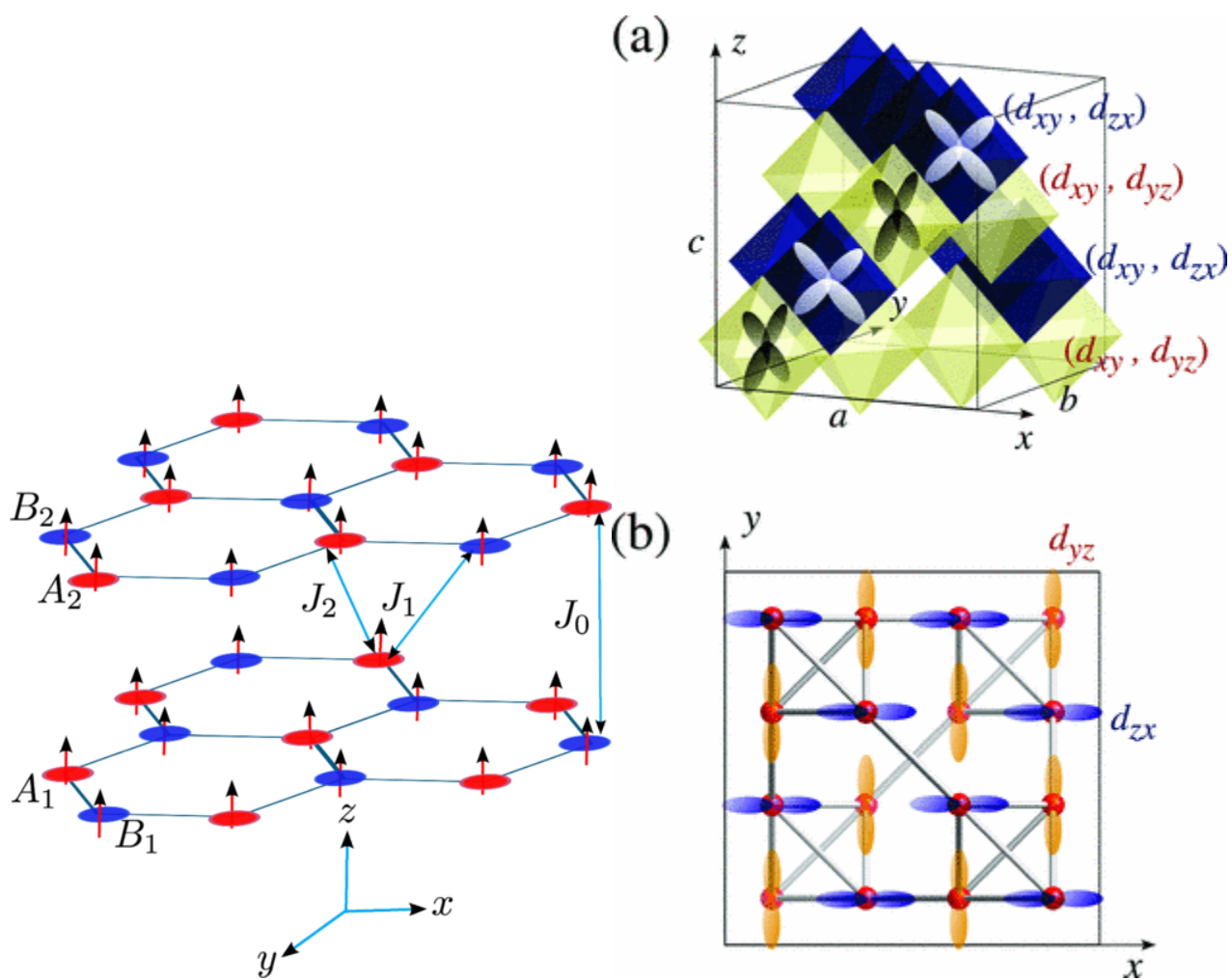
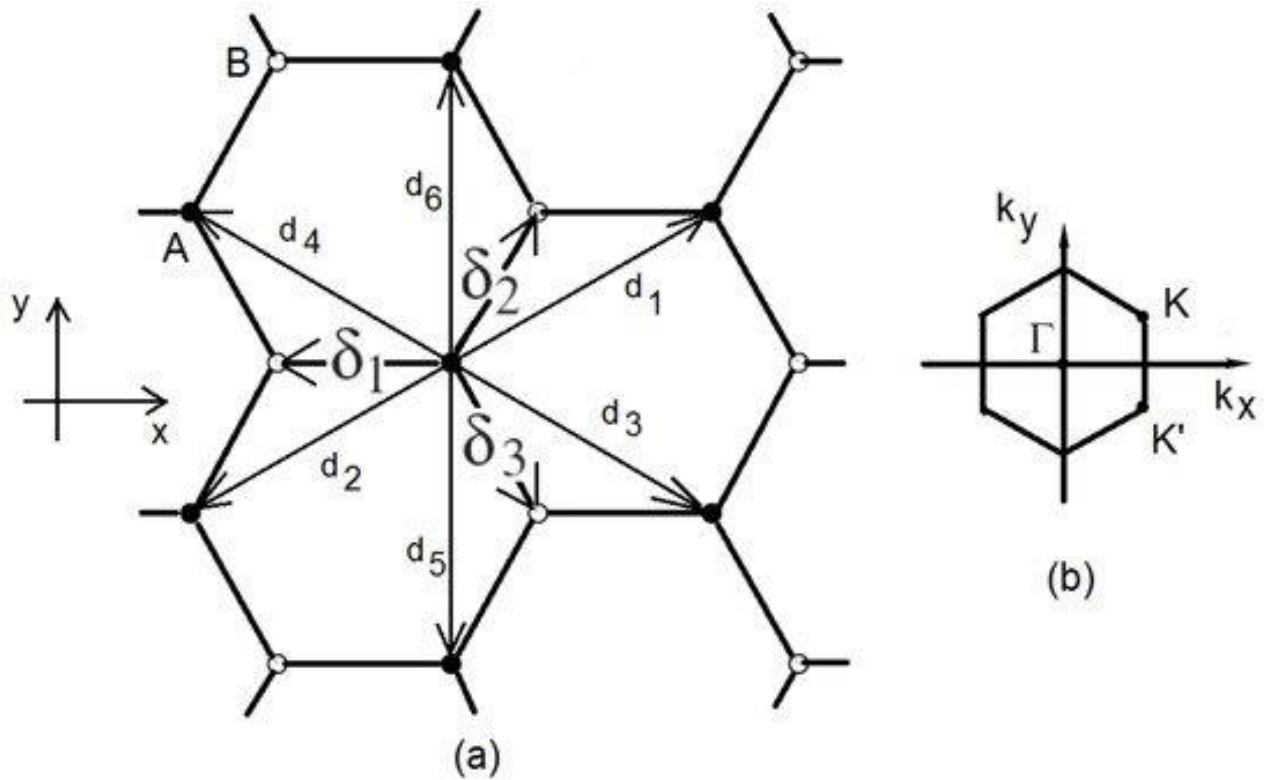


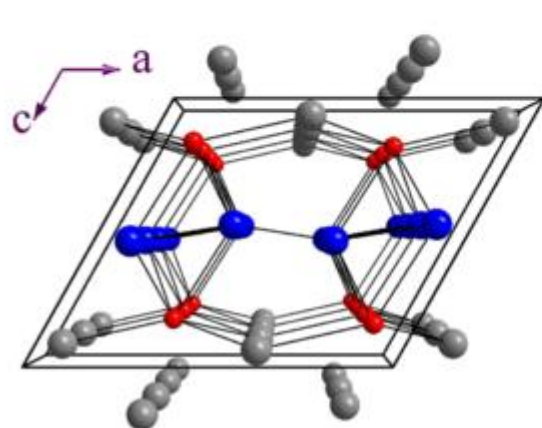
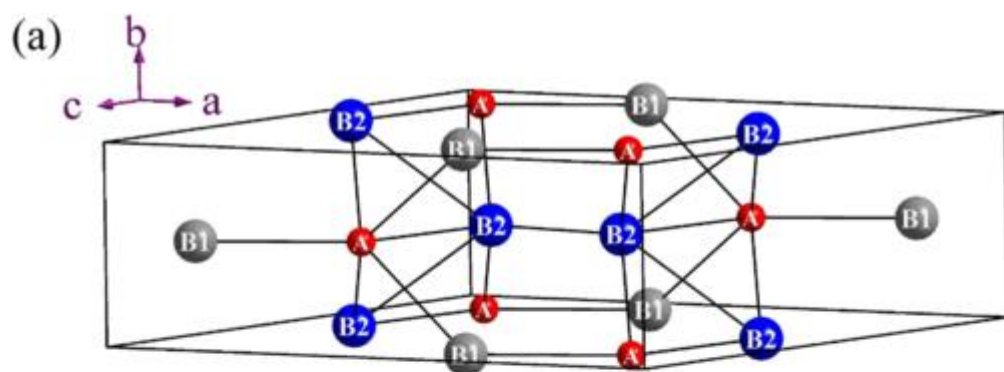




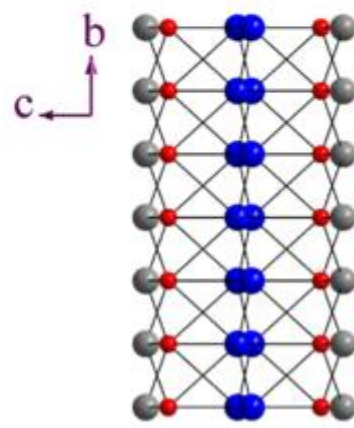




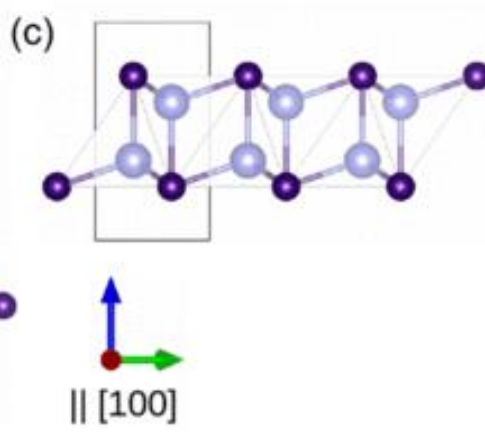
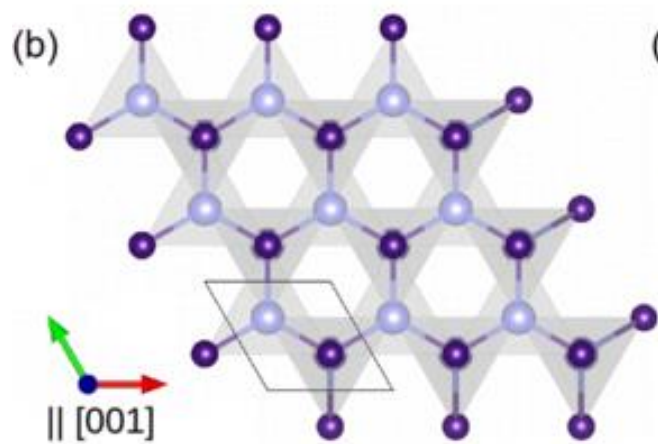
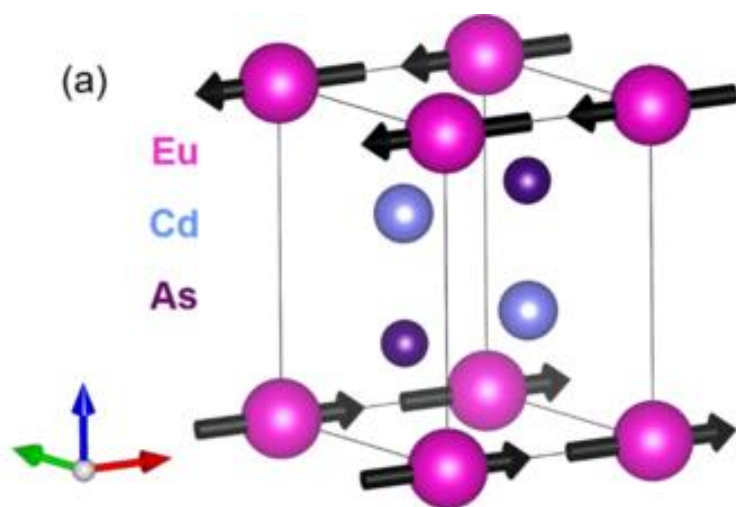


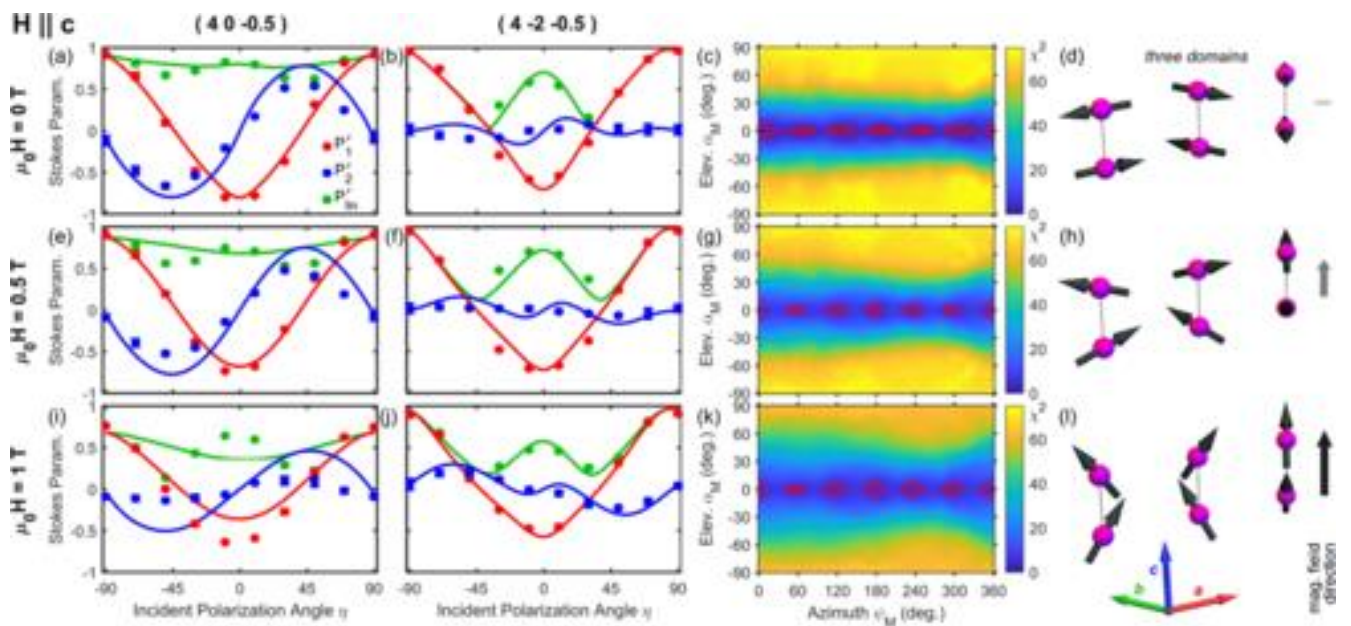
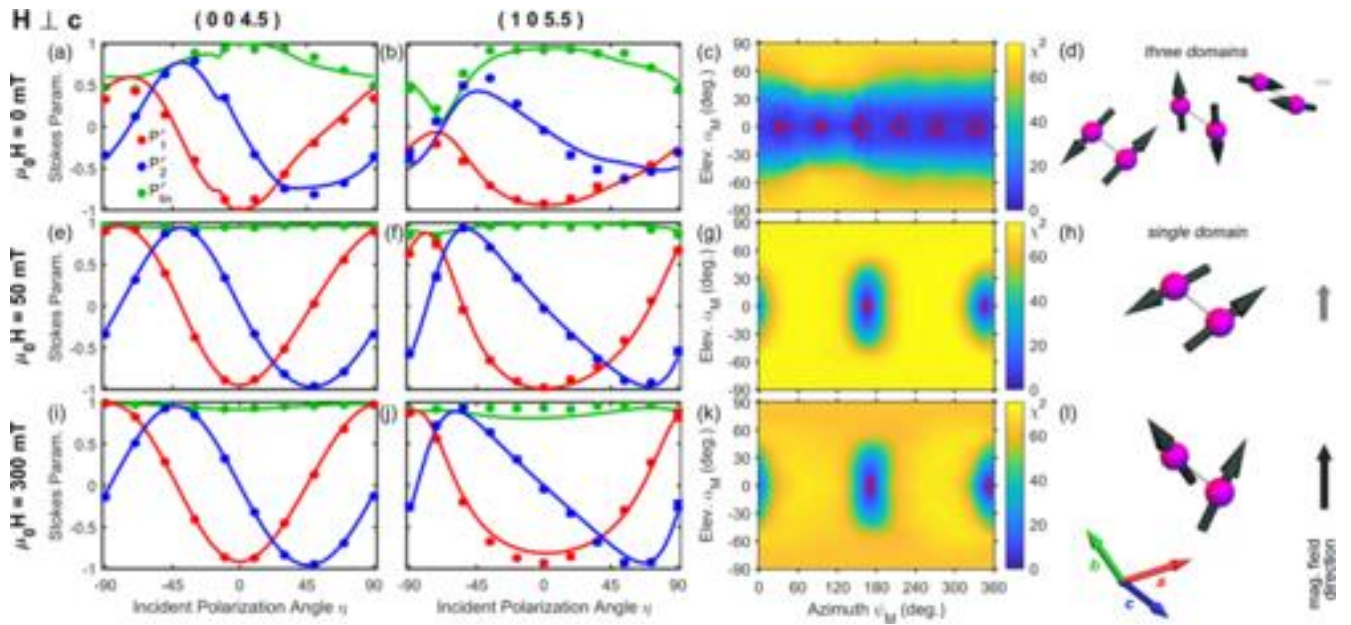
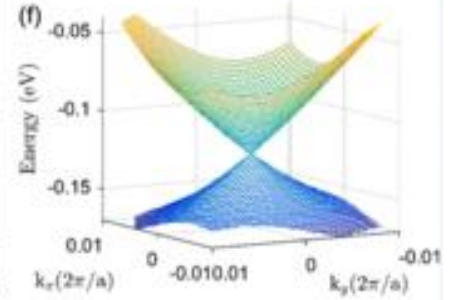
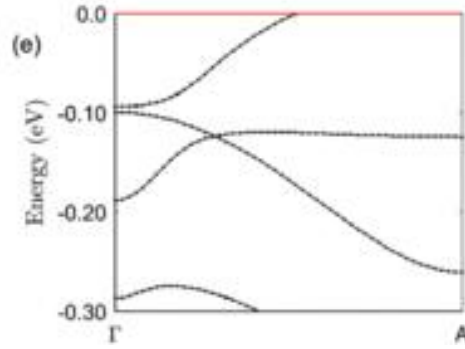
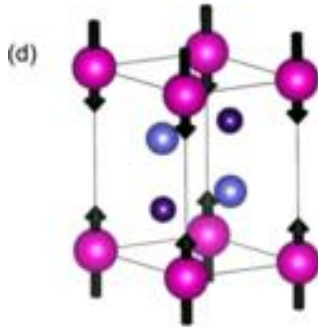
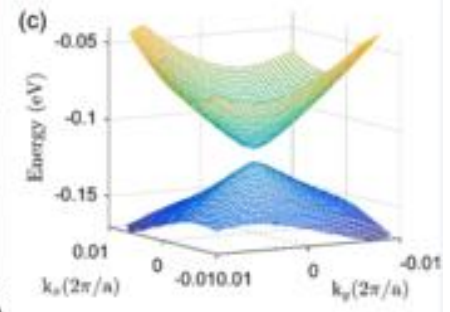
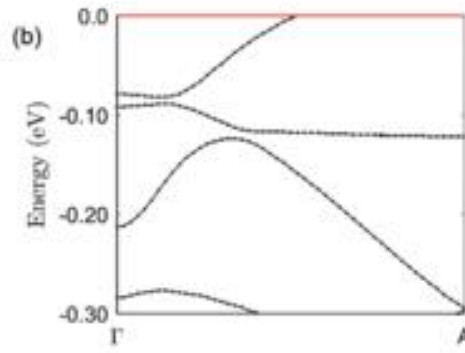
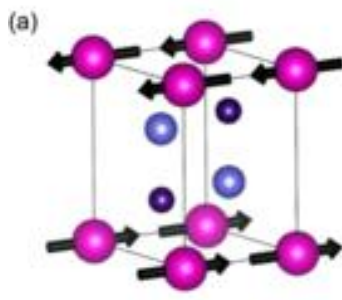


(b)

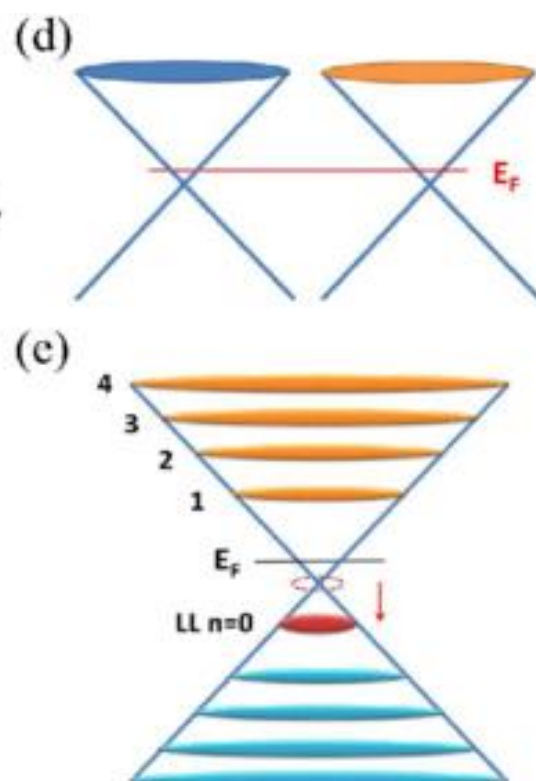
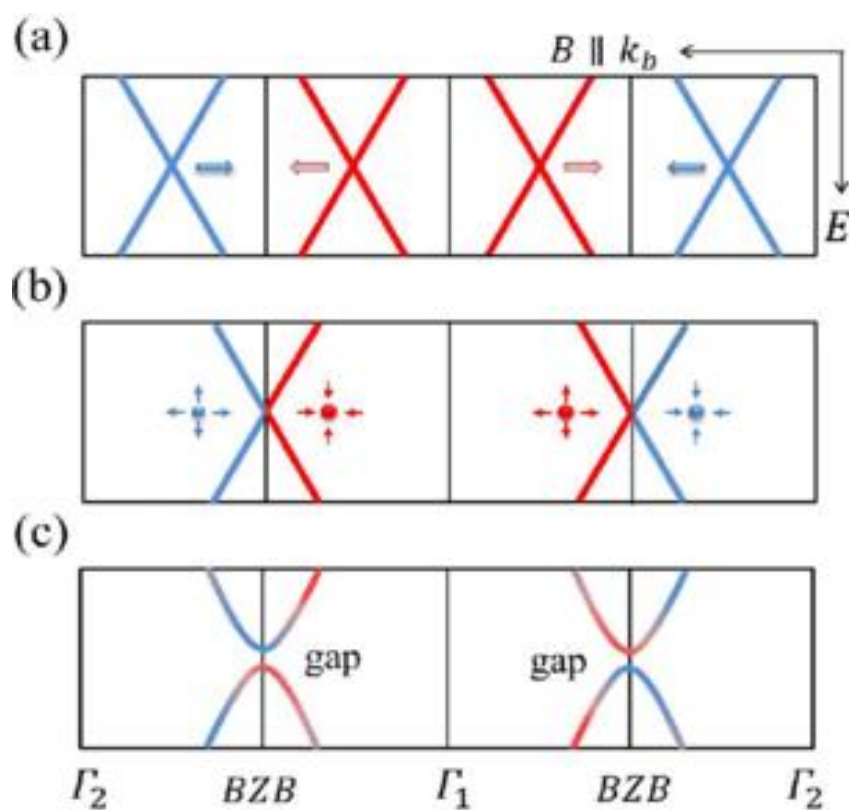
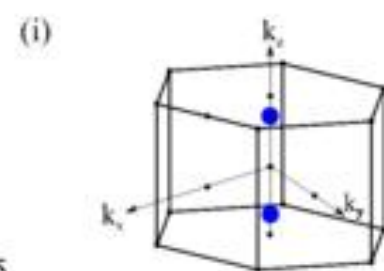
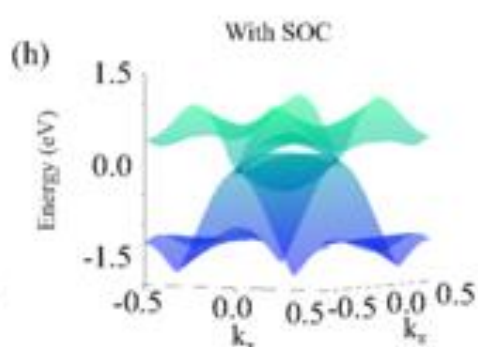
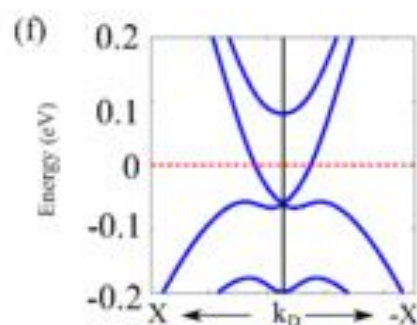
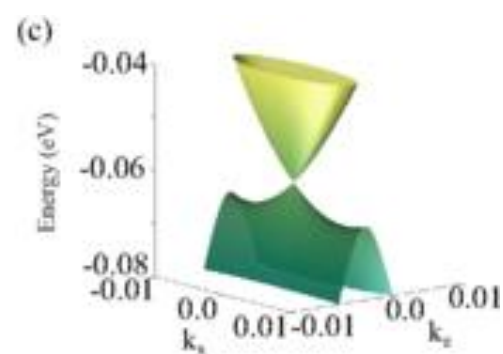


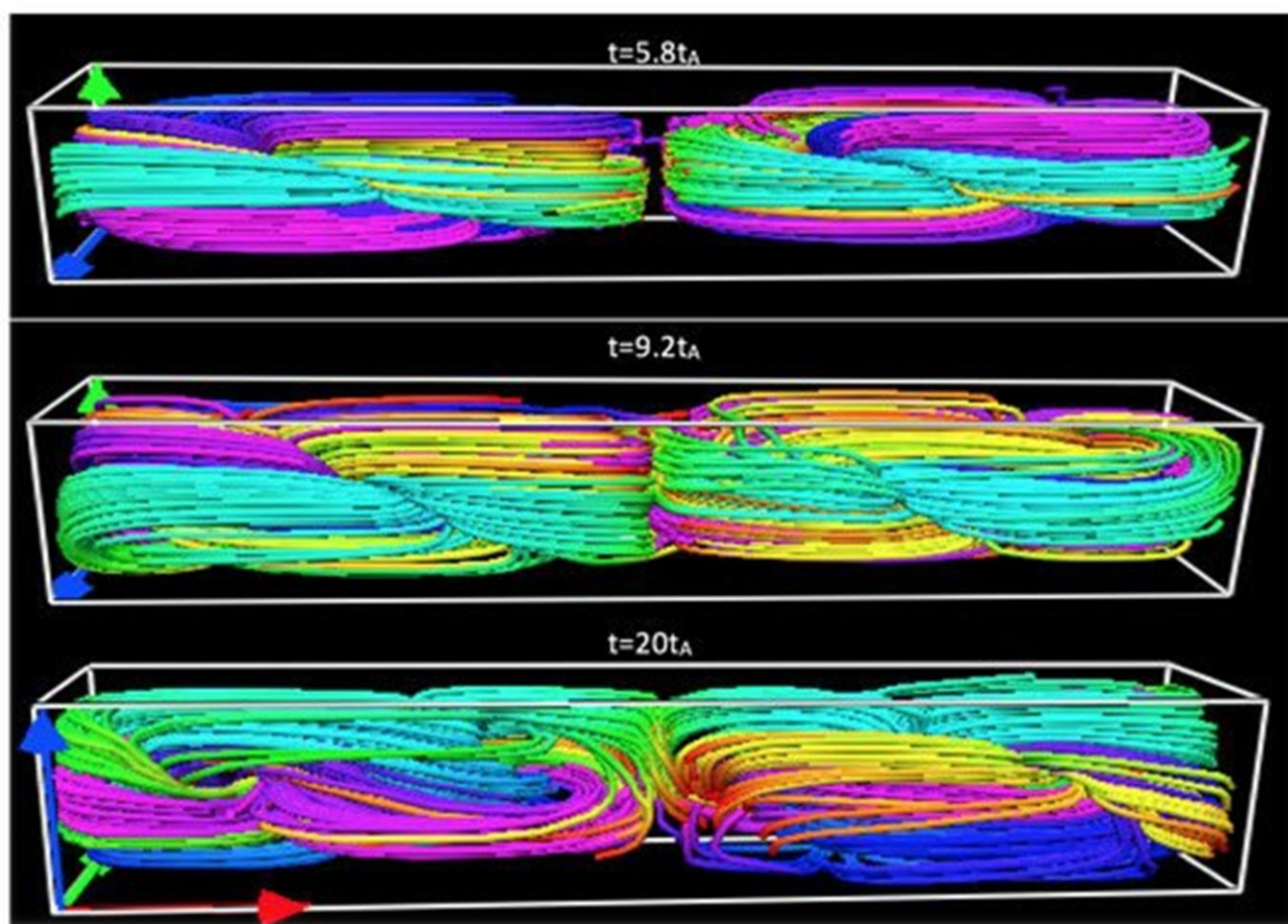
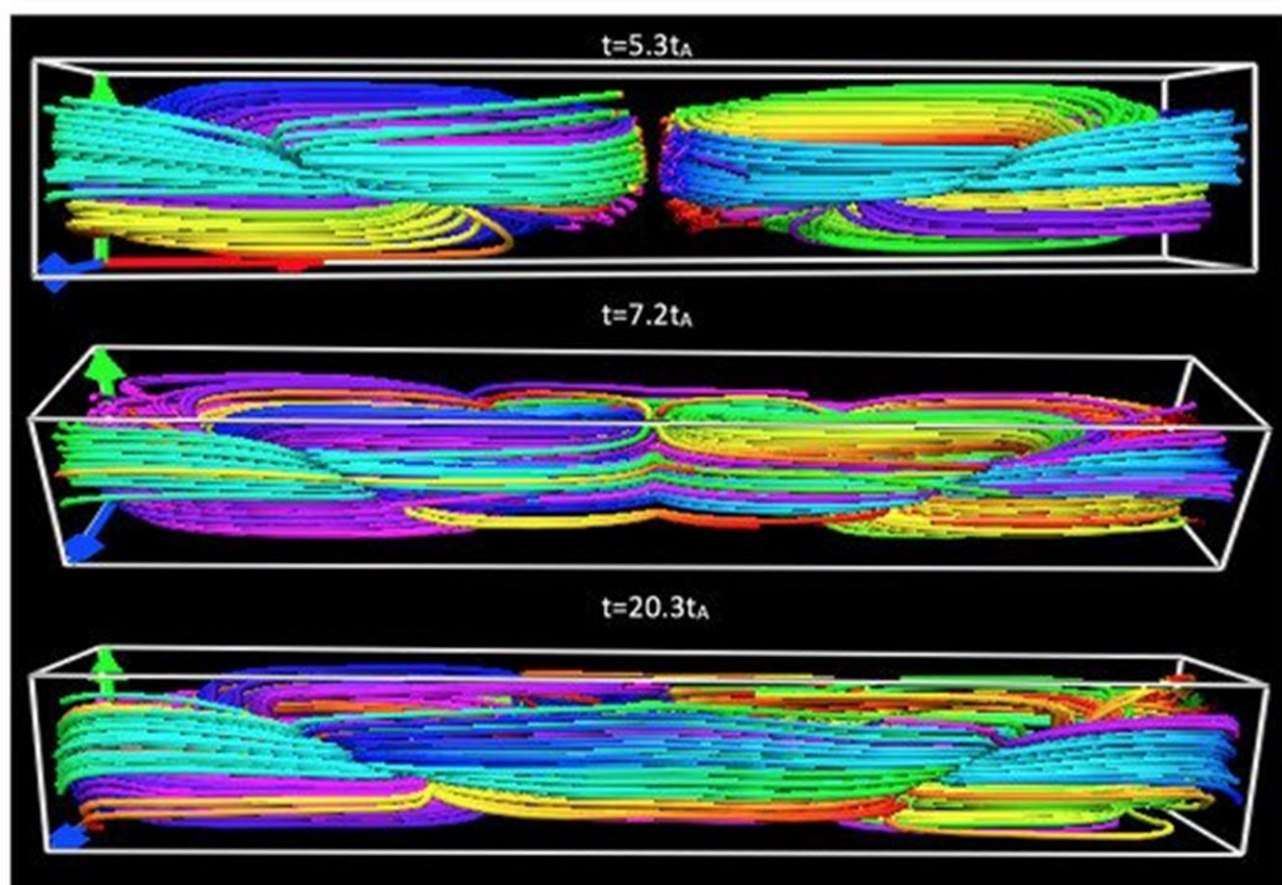
(c)



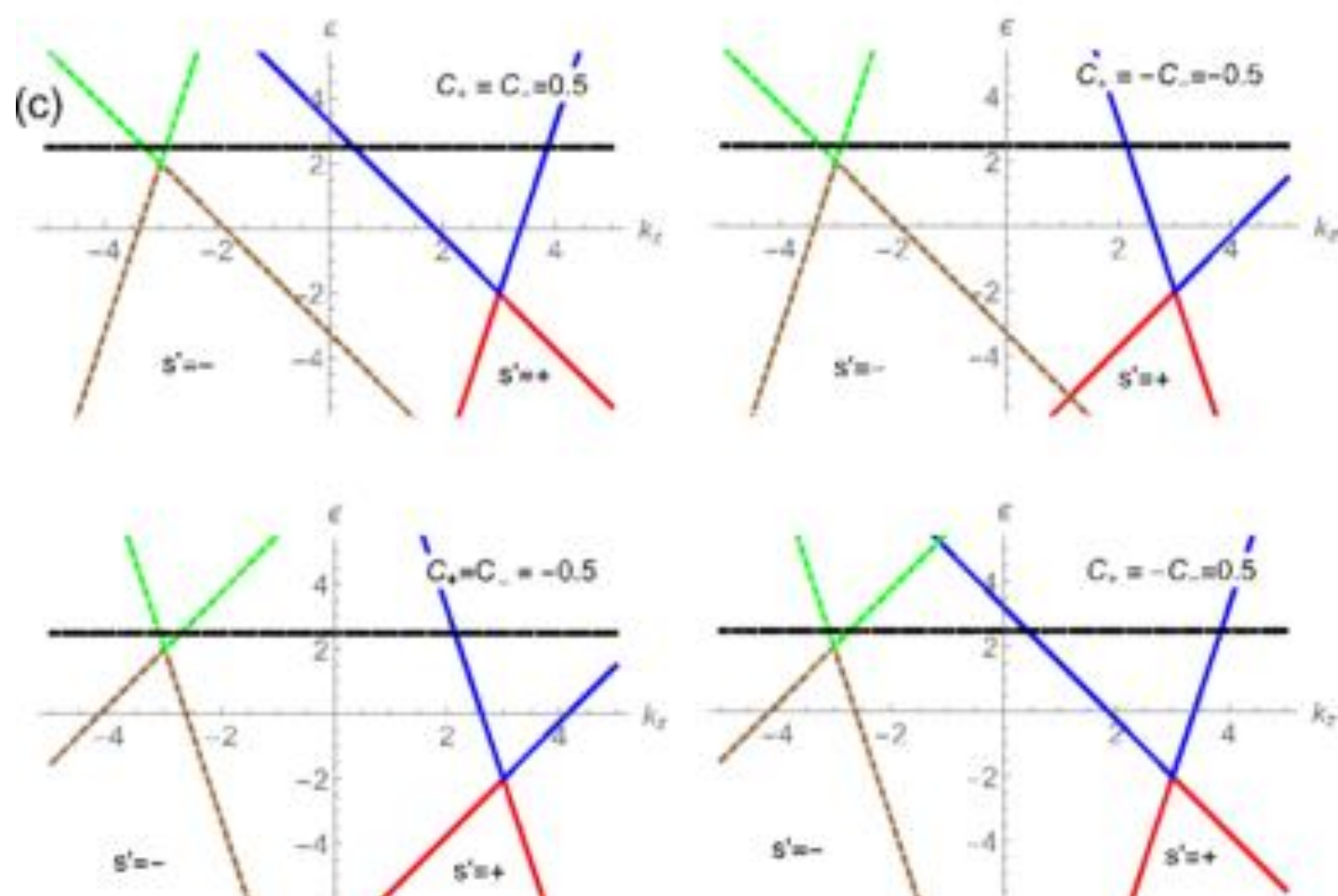
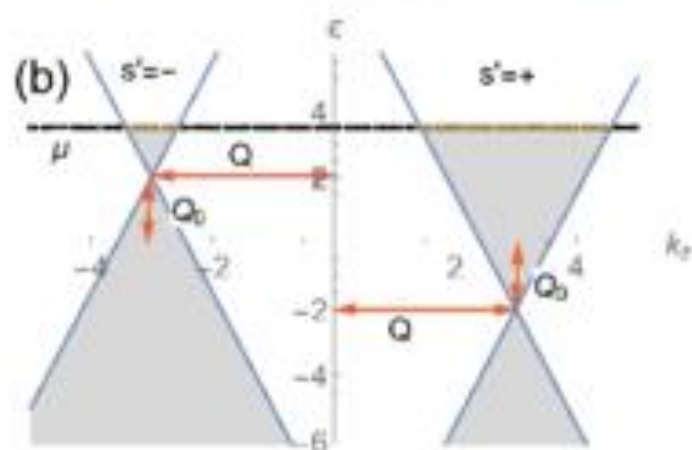




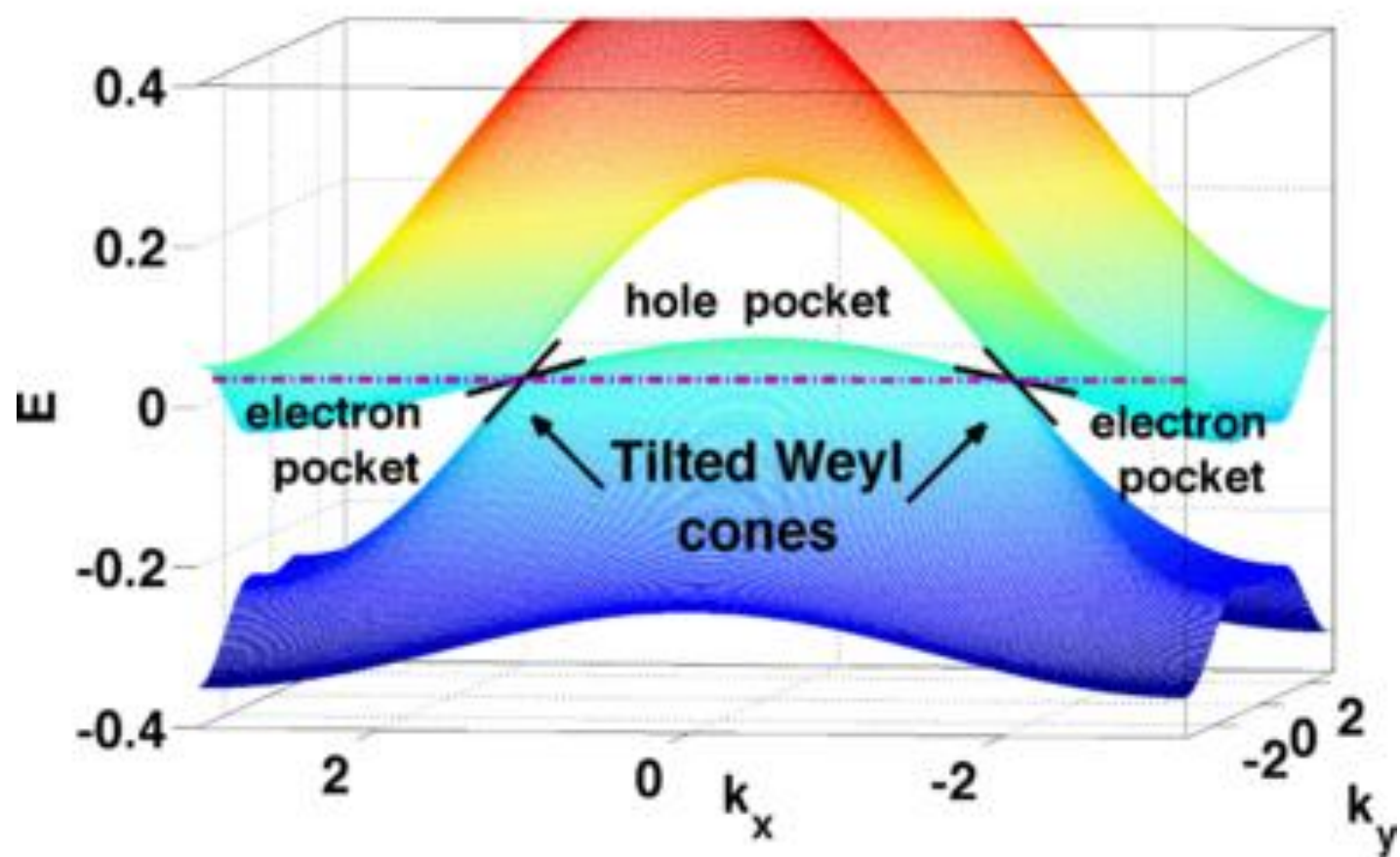
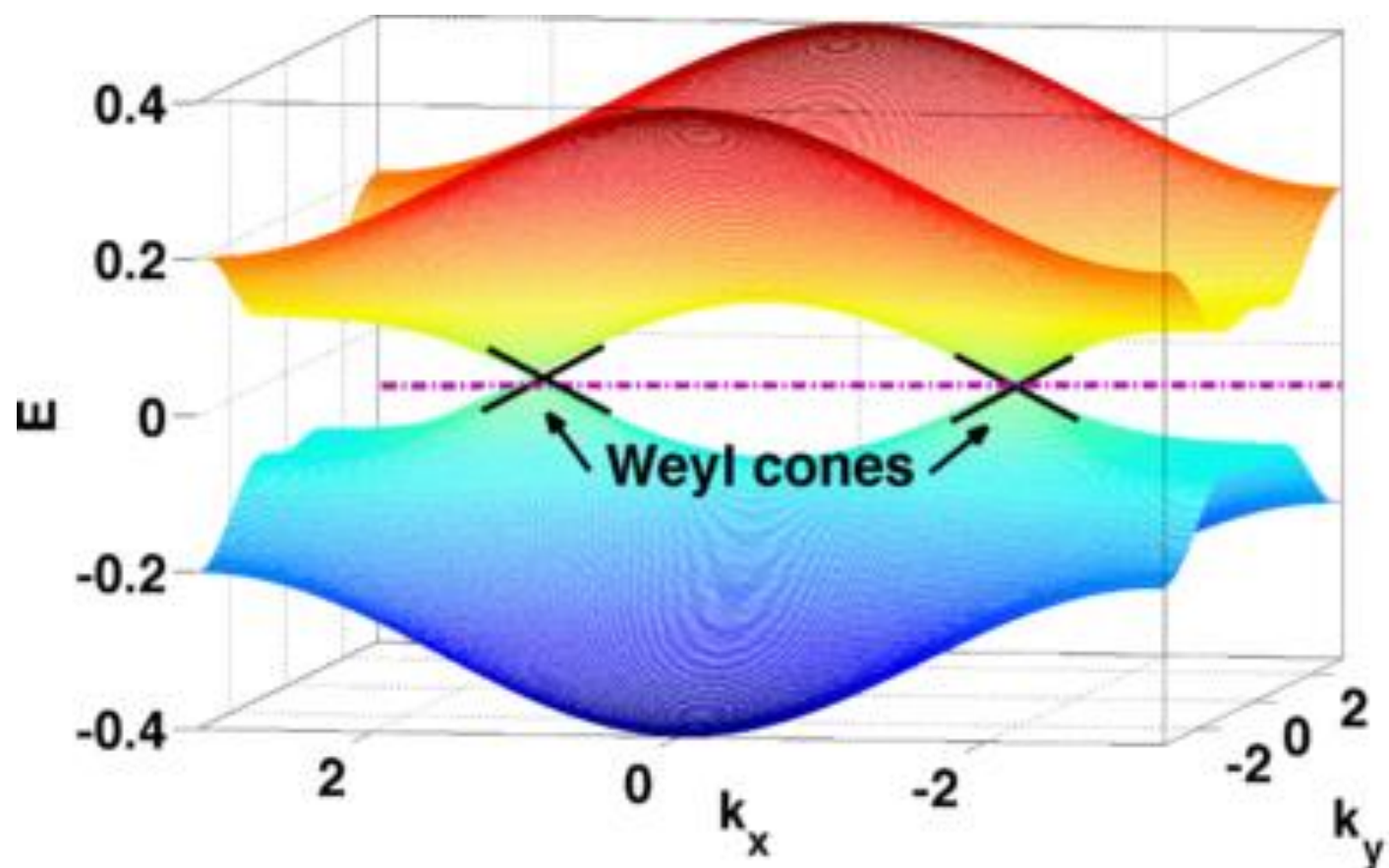


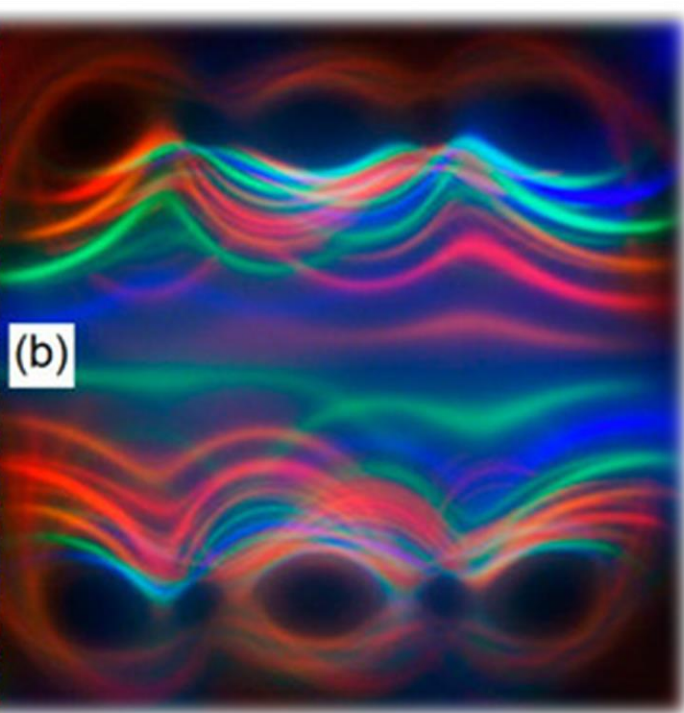
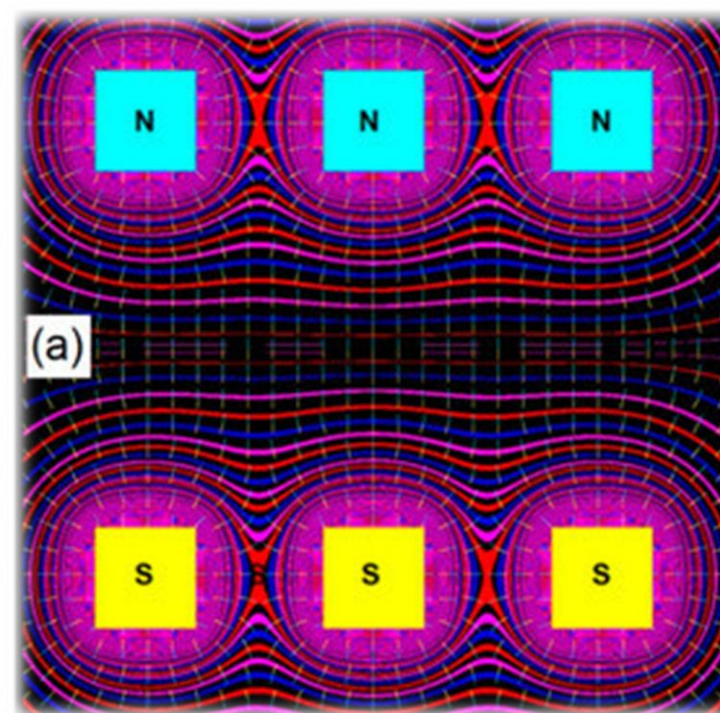
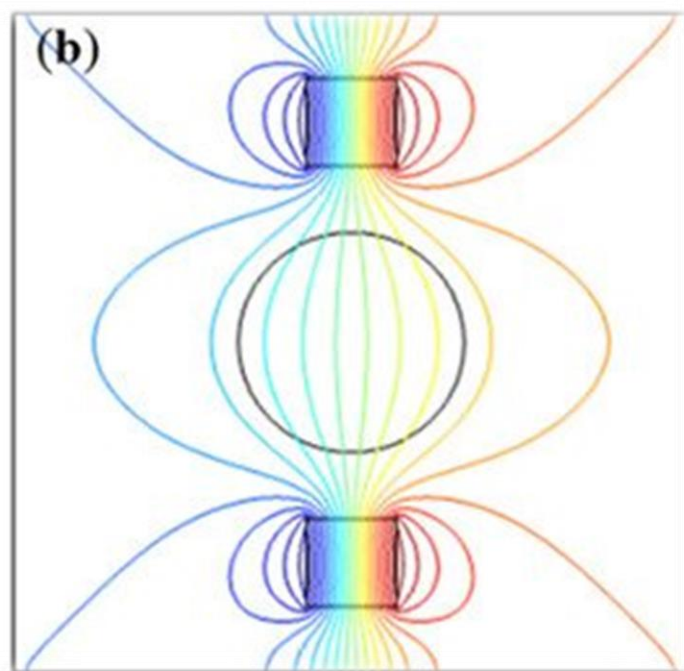
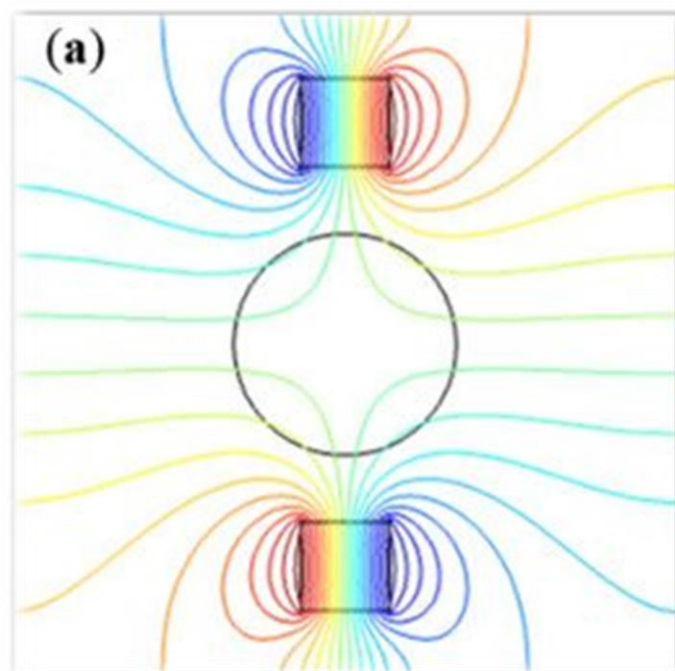




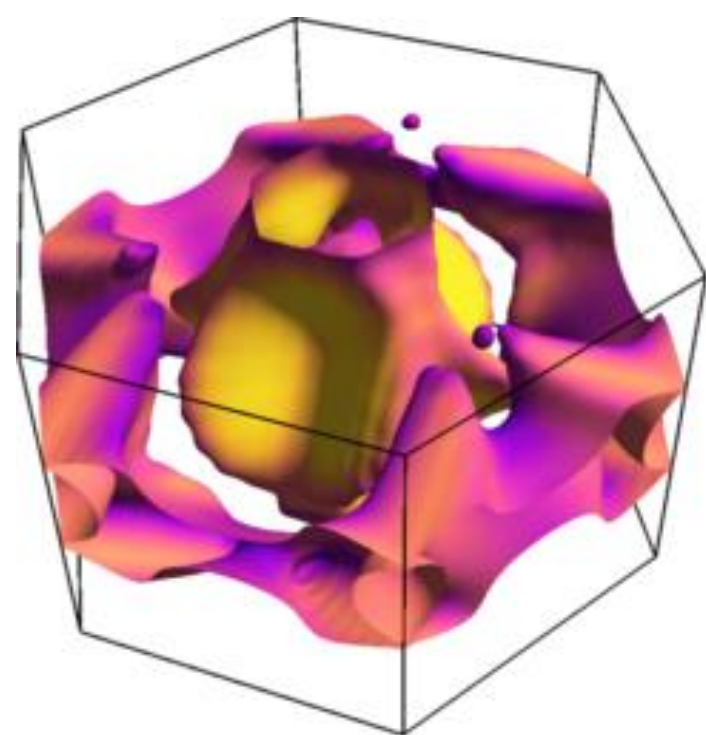
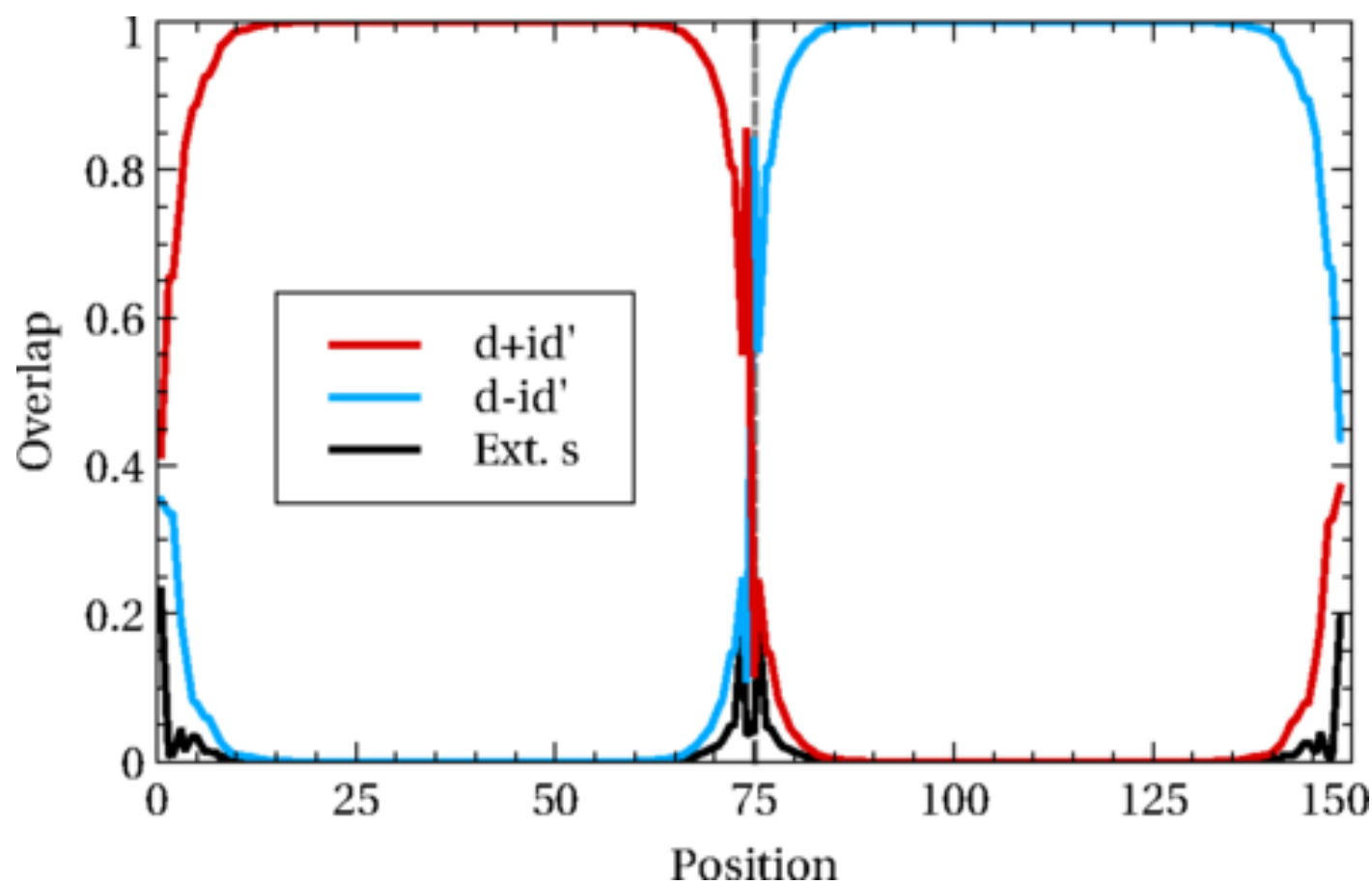




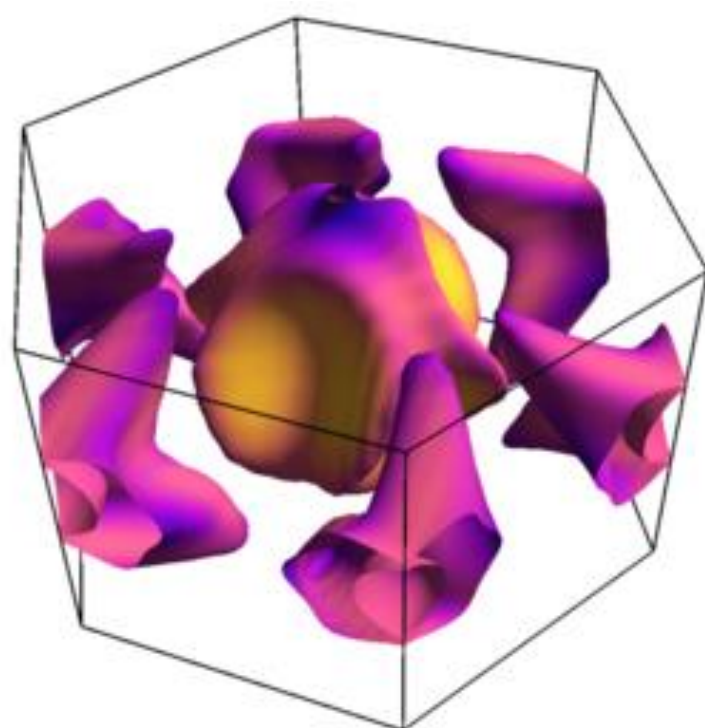




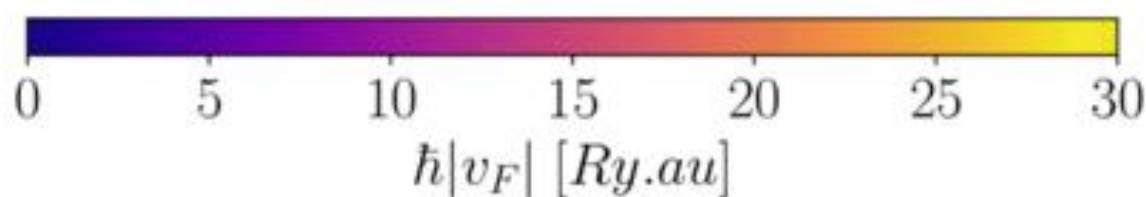




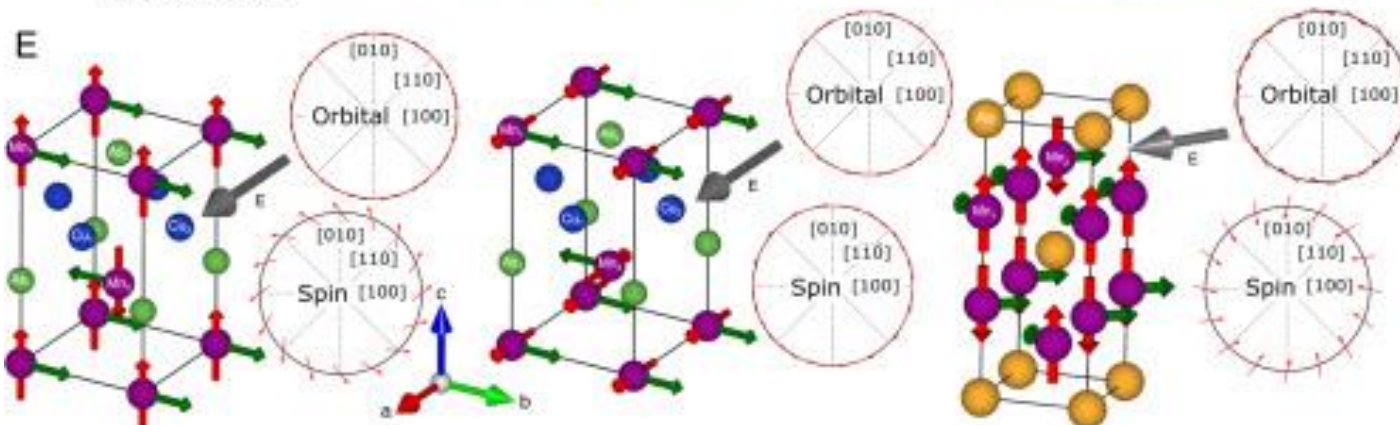
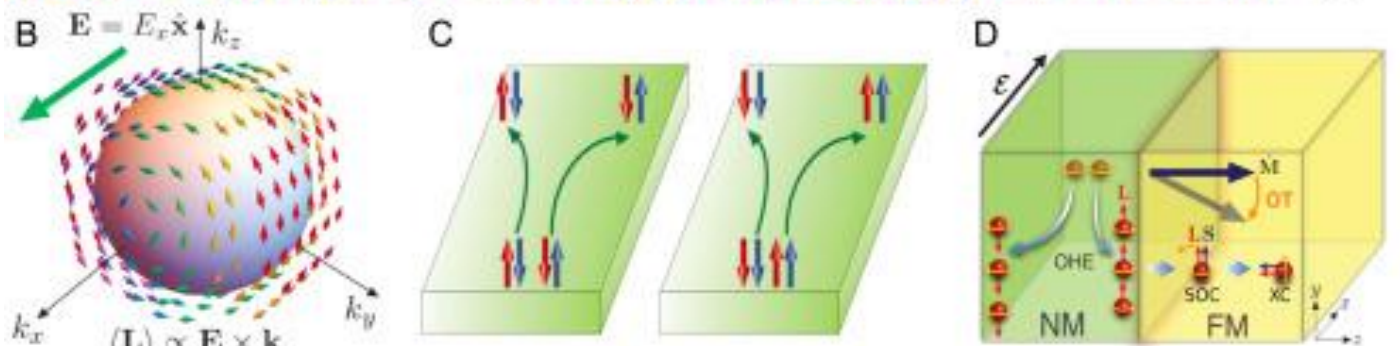
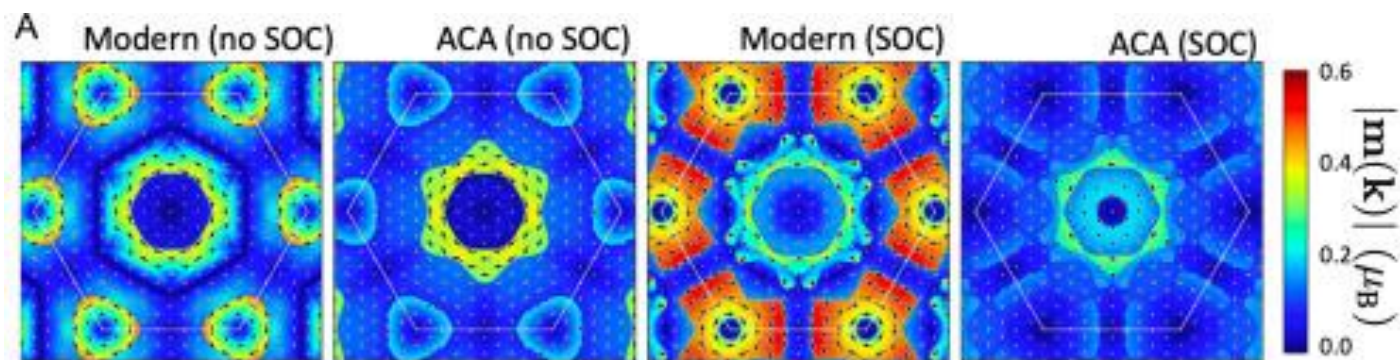
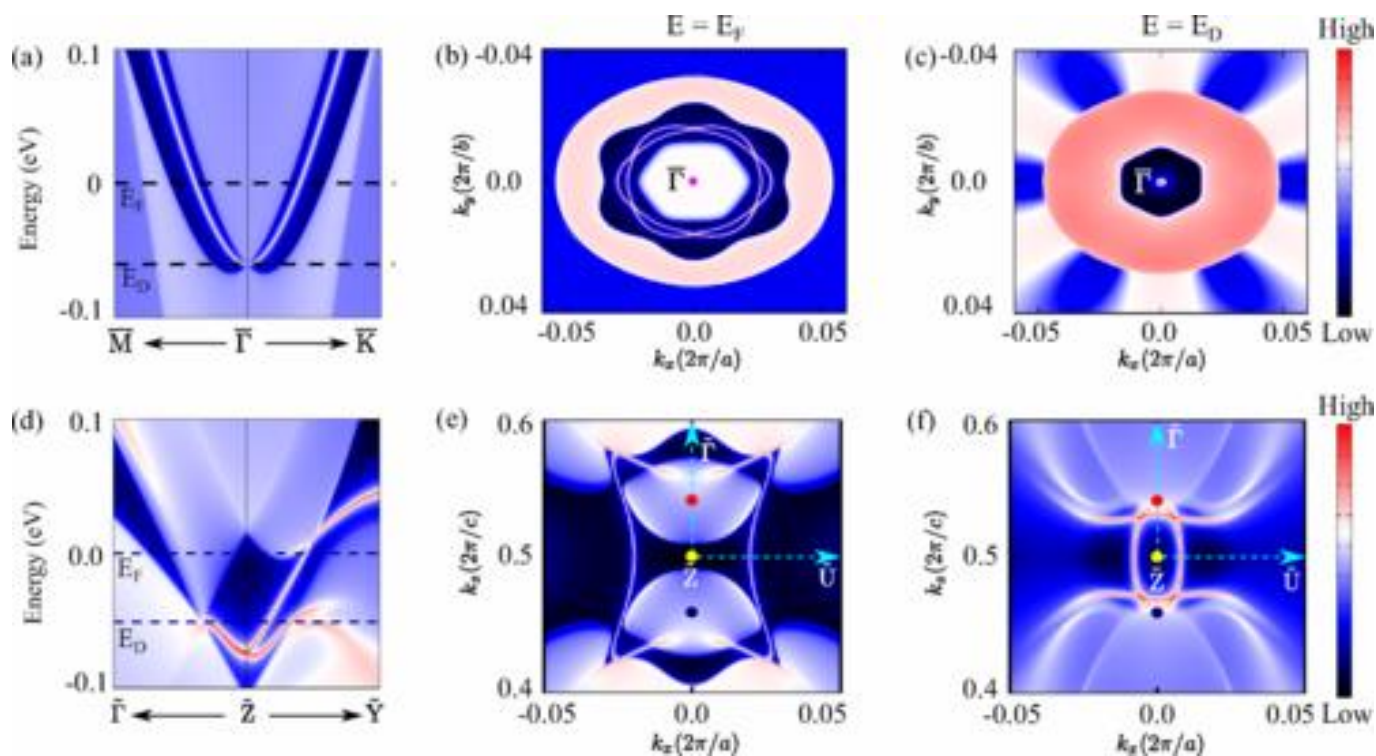
(a)  $\eta = (-0.02, -0.02, -0.02)$

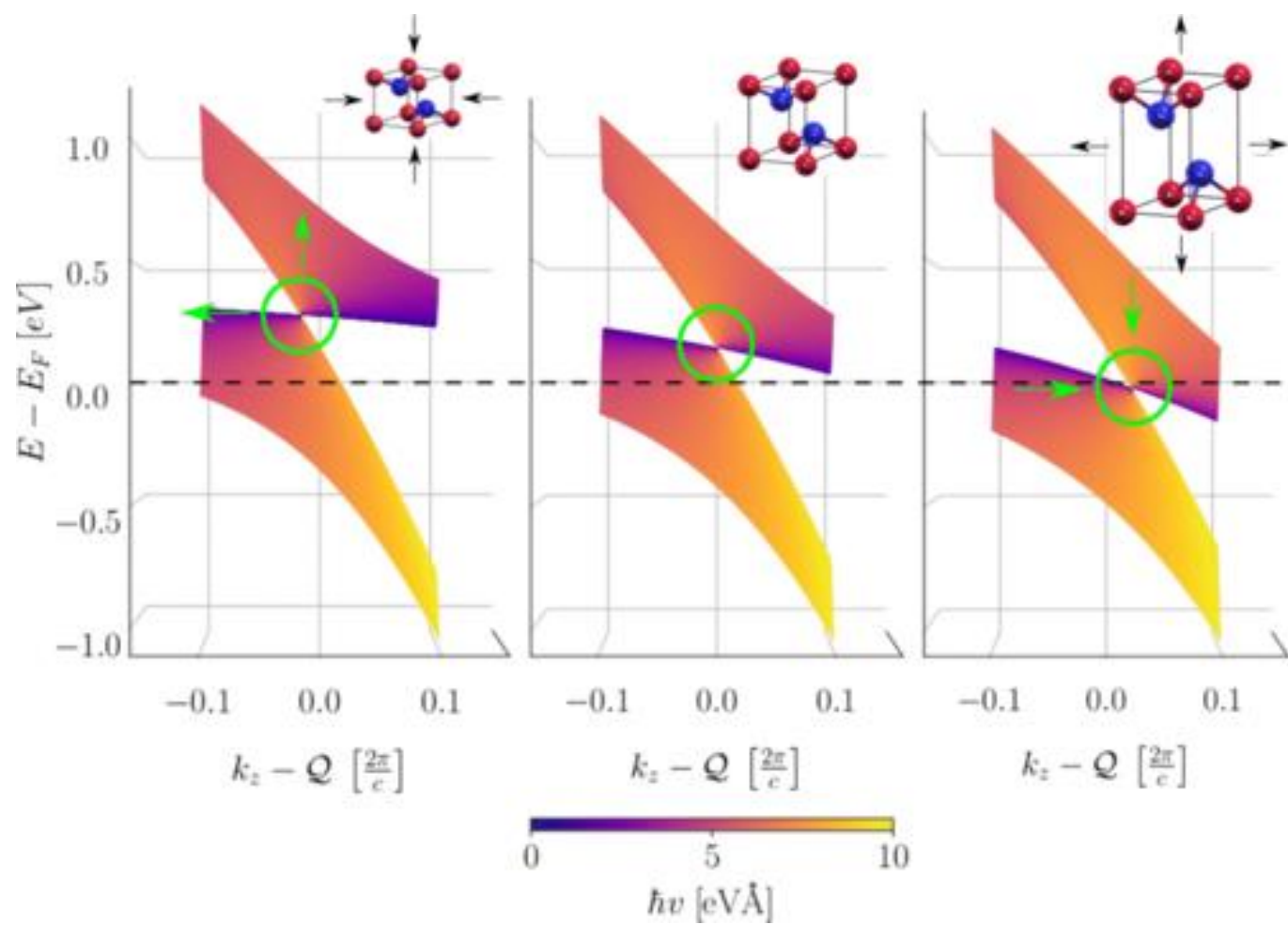
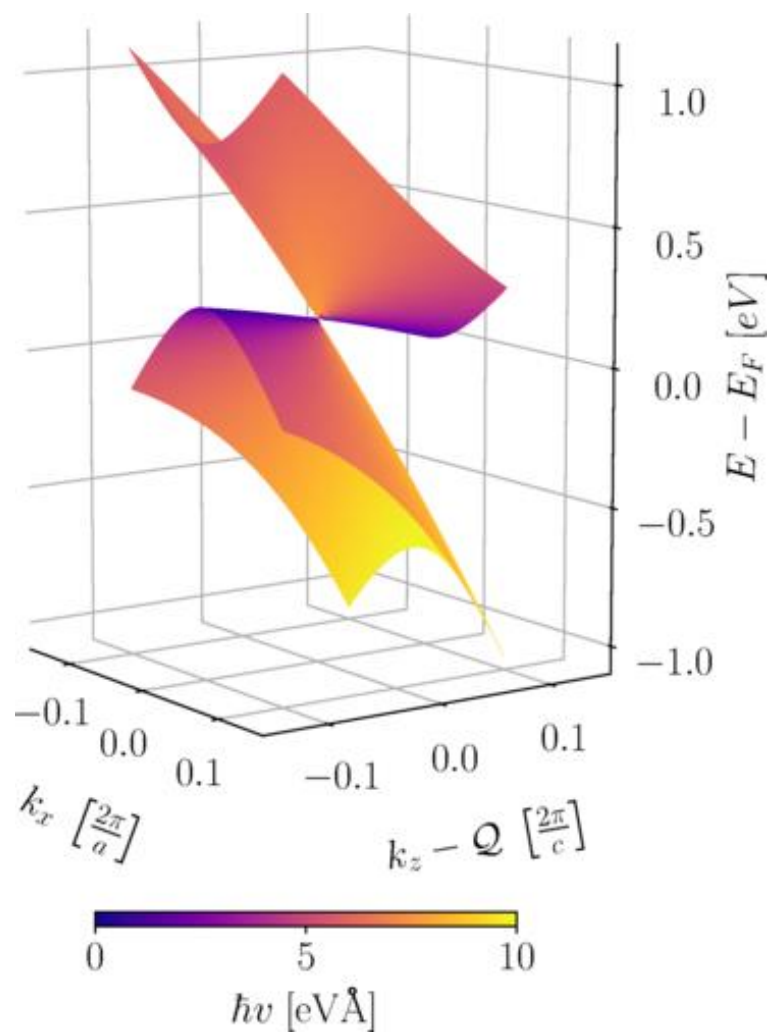


(b)  $\eta = (0.02, 0.02, 0.02)$

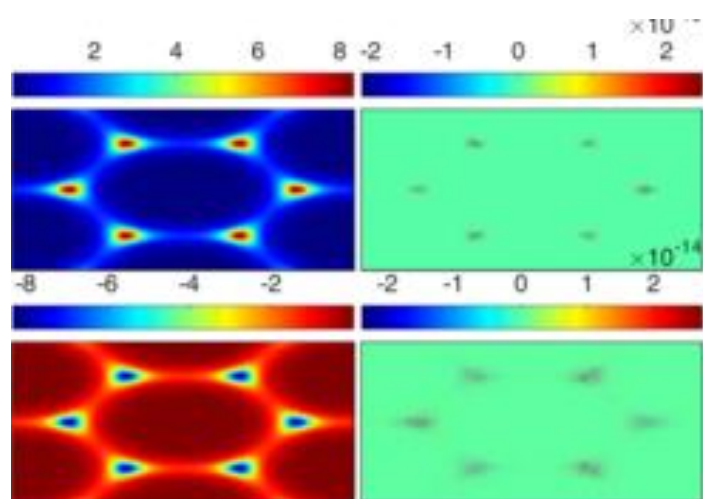
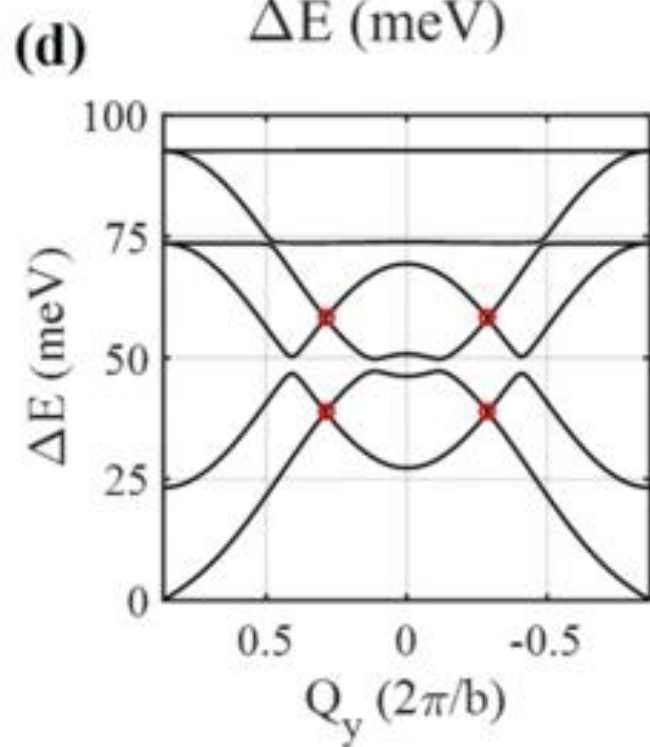
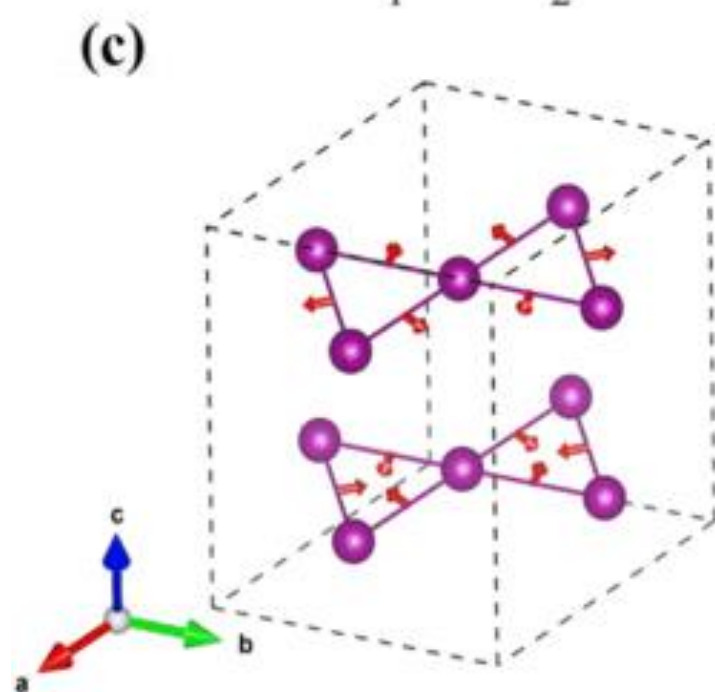
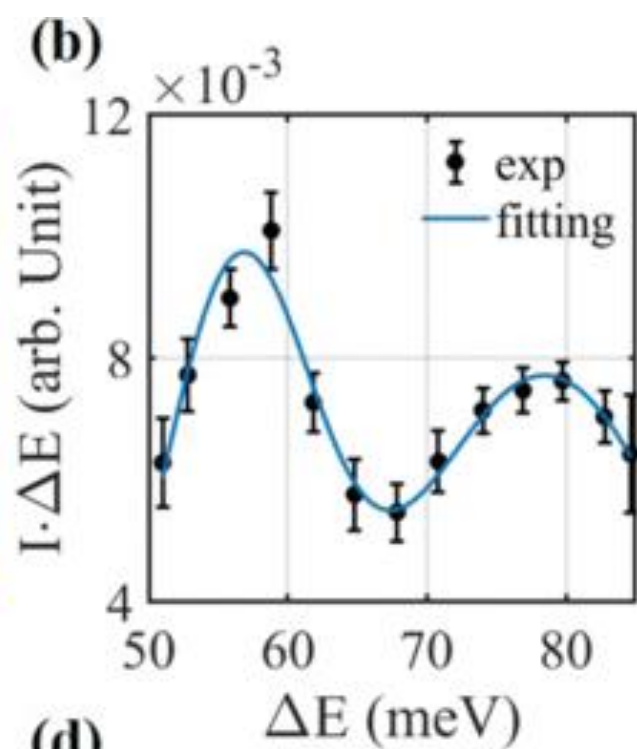
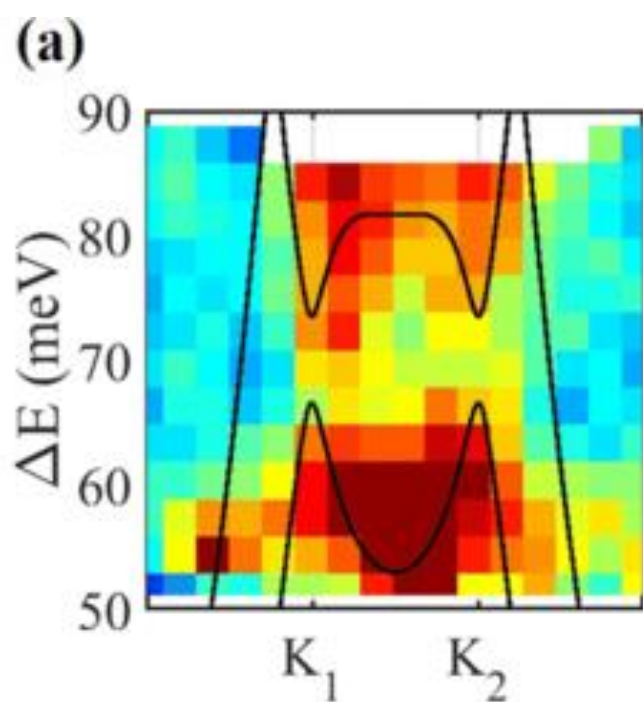




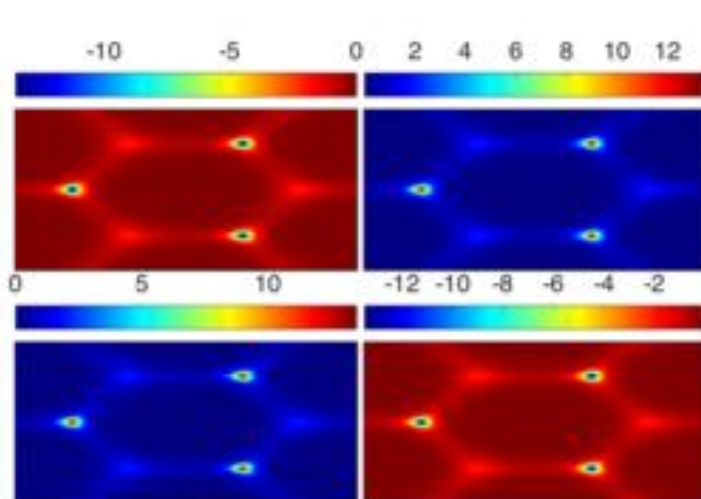






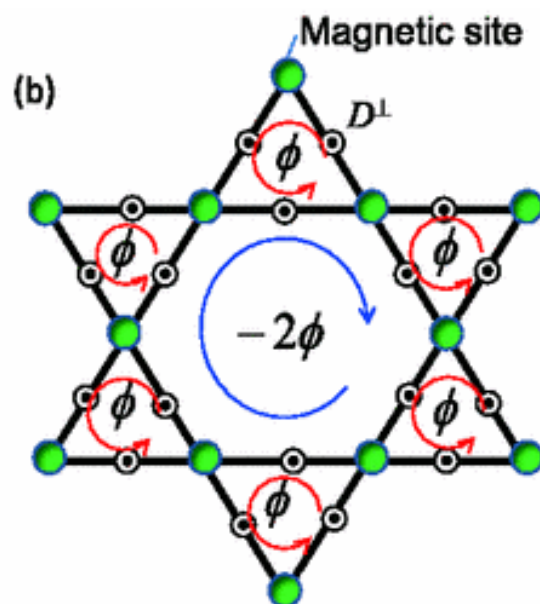
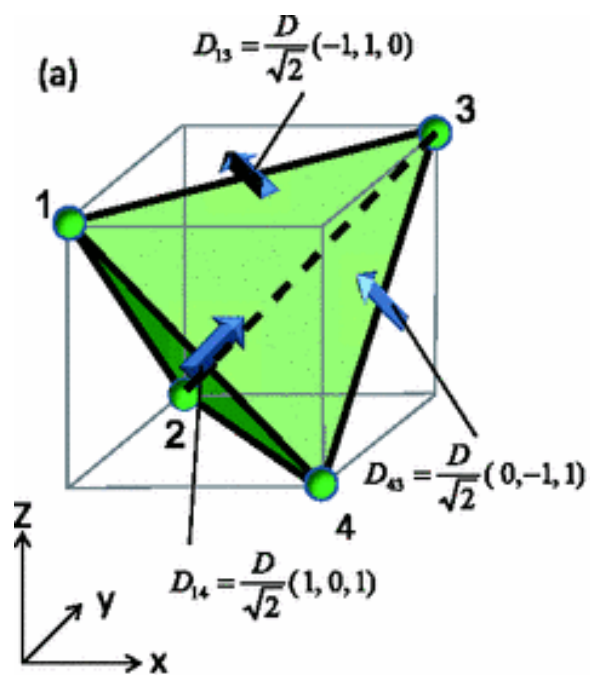


(a)

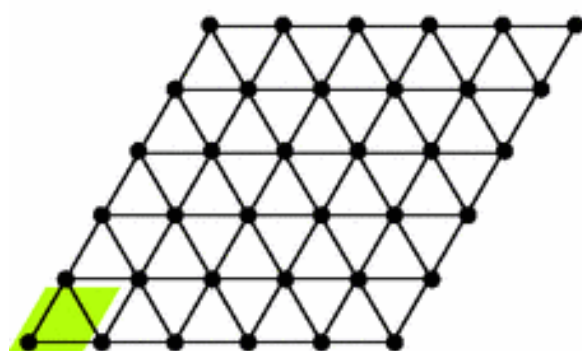


(b)

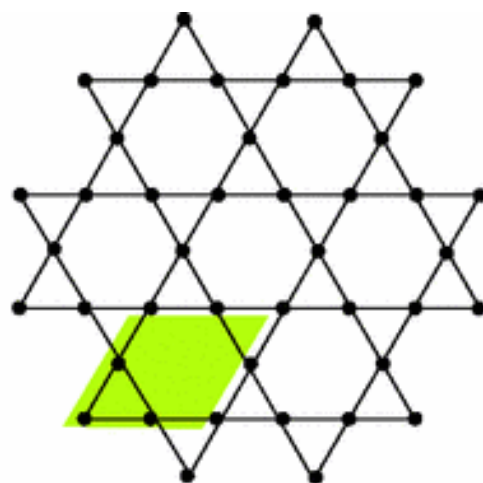




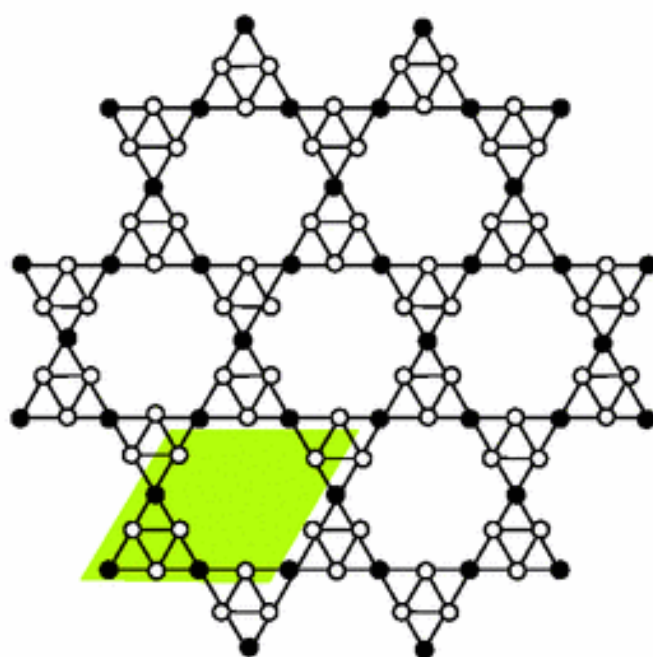
(111) plane



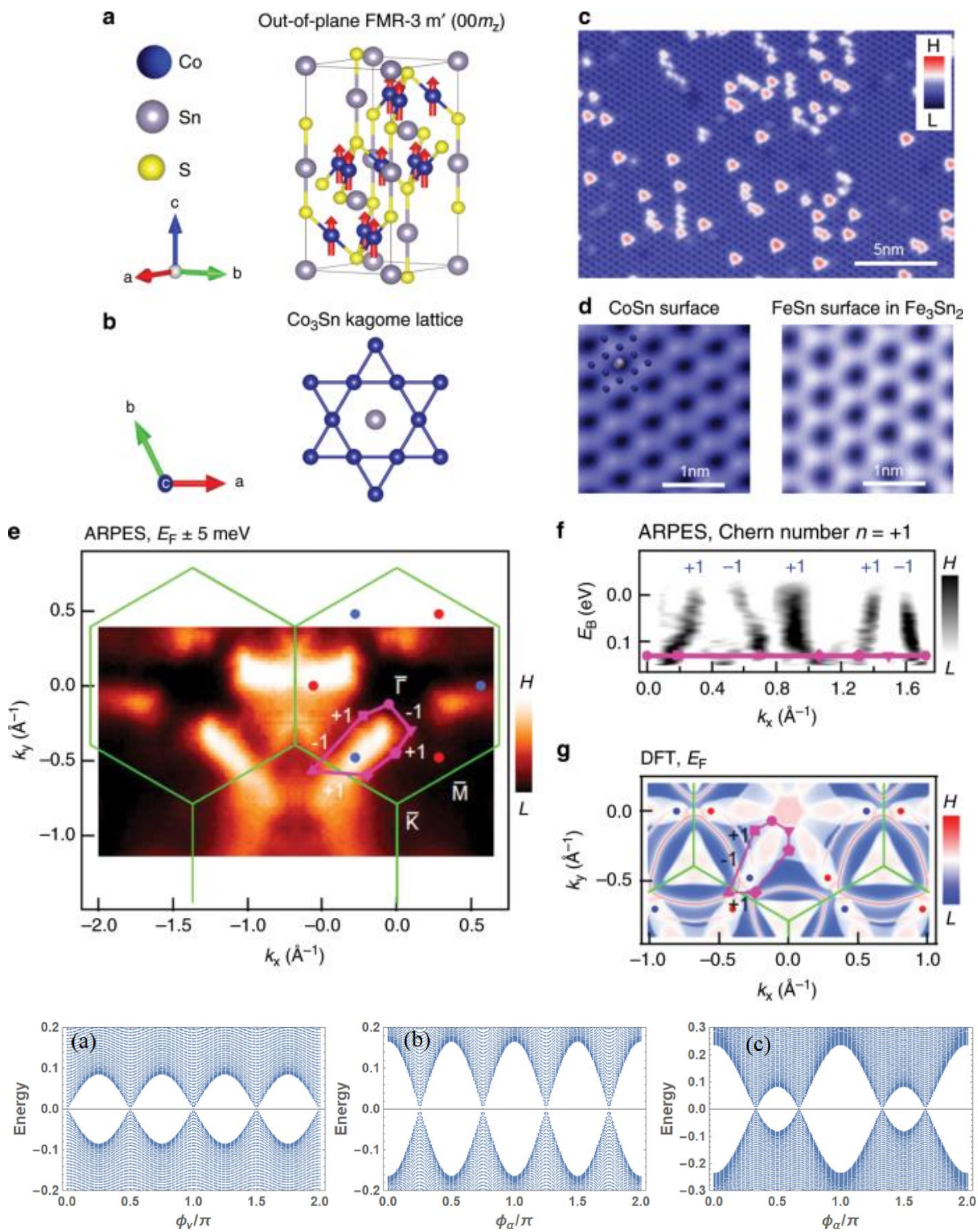
(a)



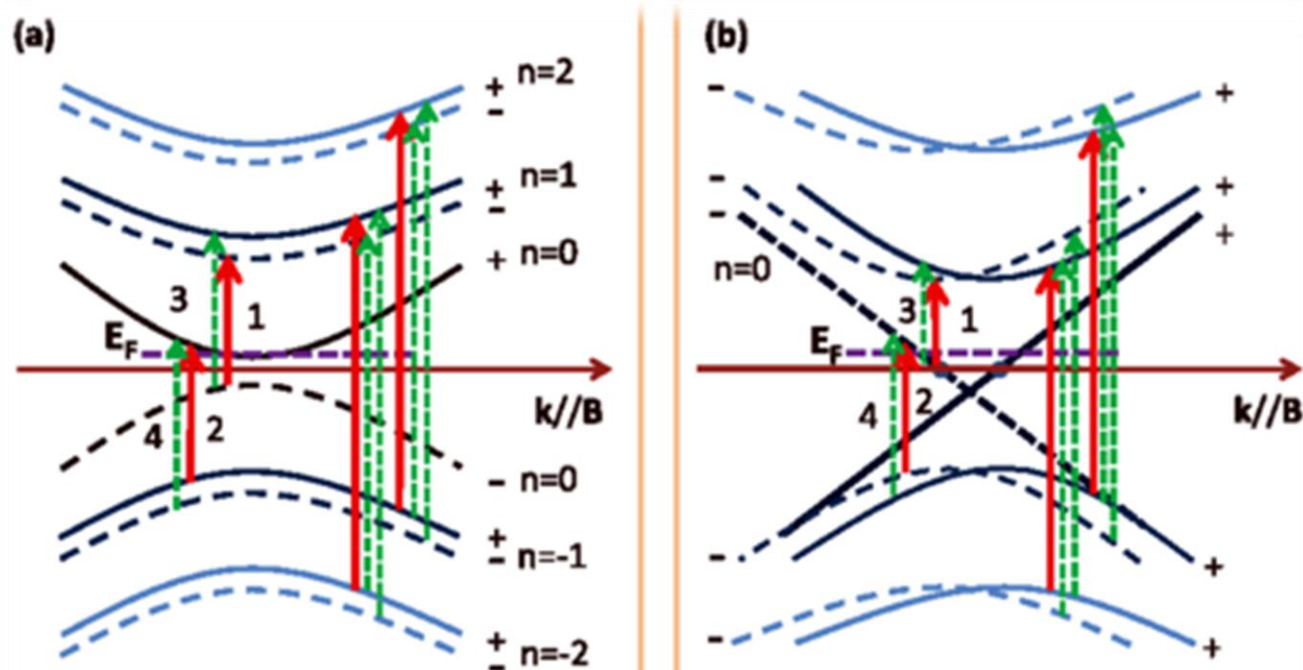
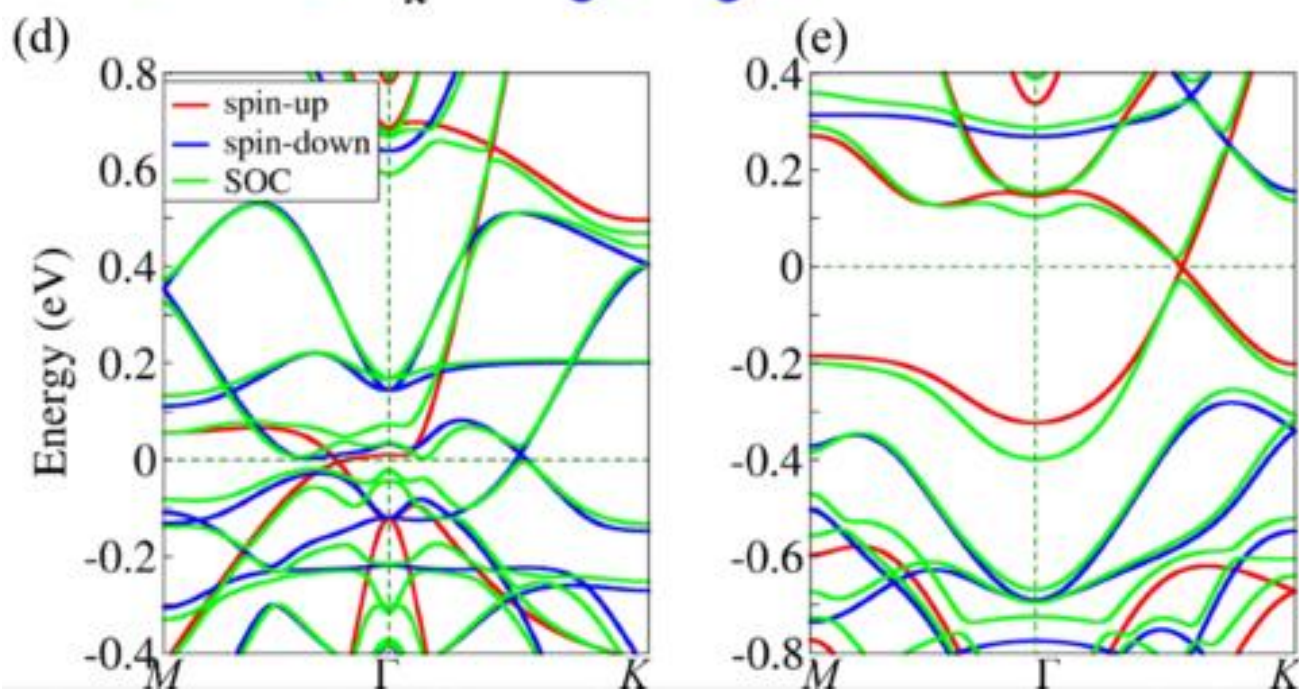
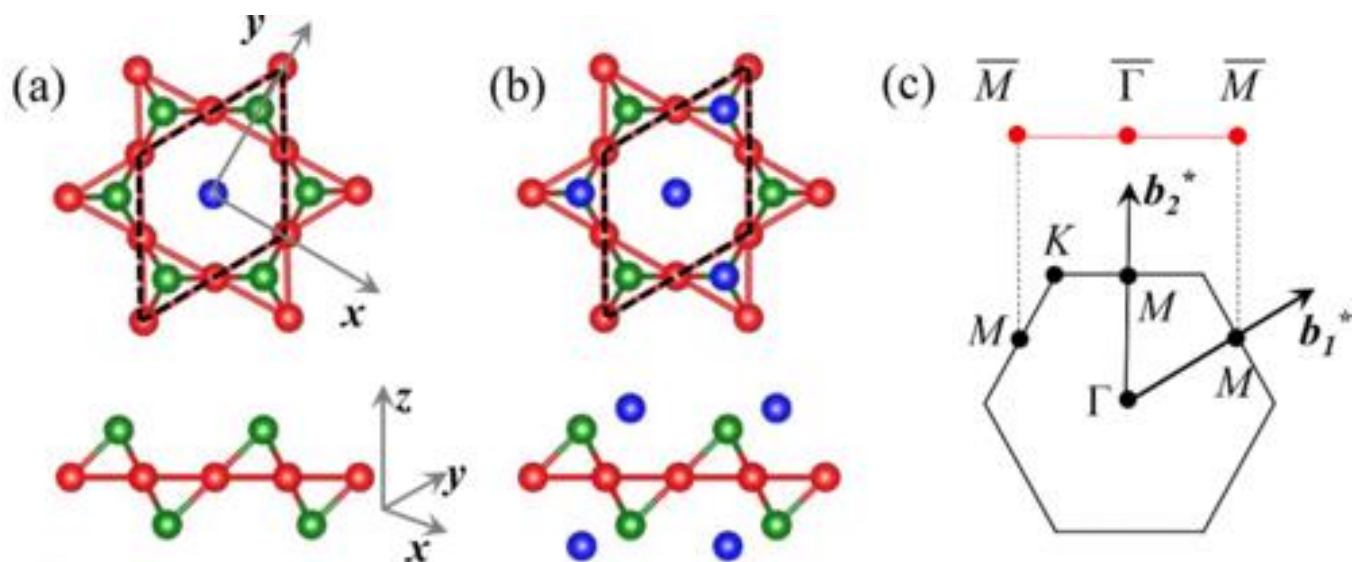
(b)



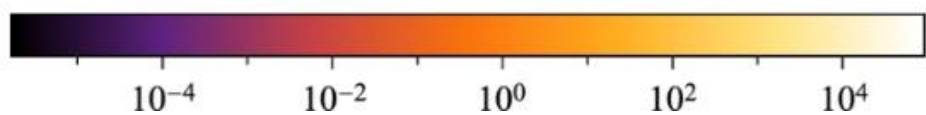
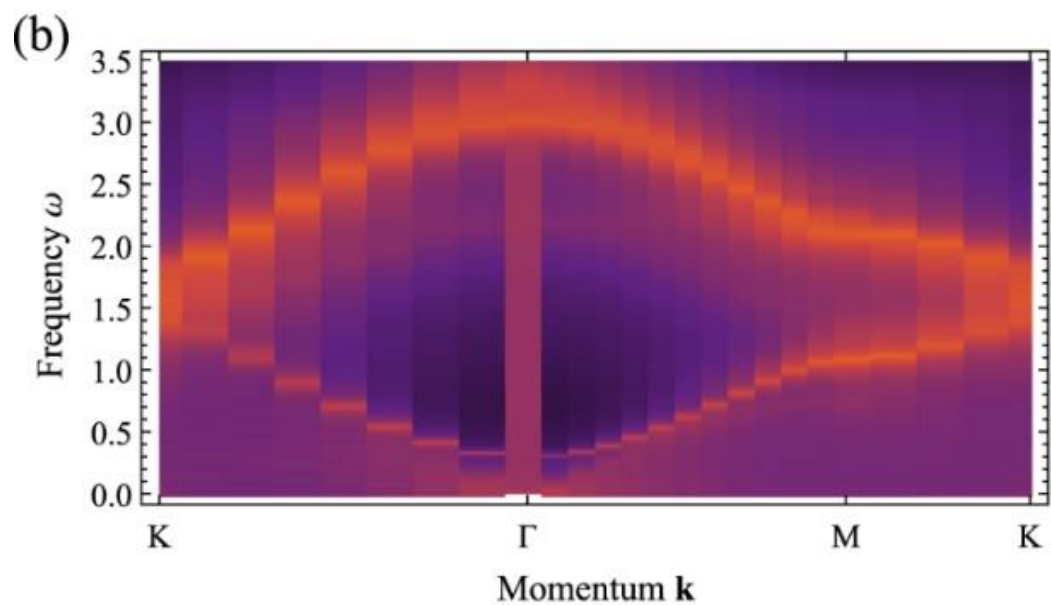
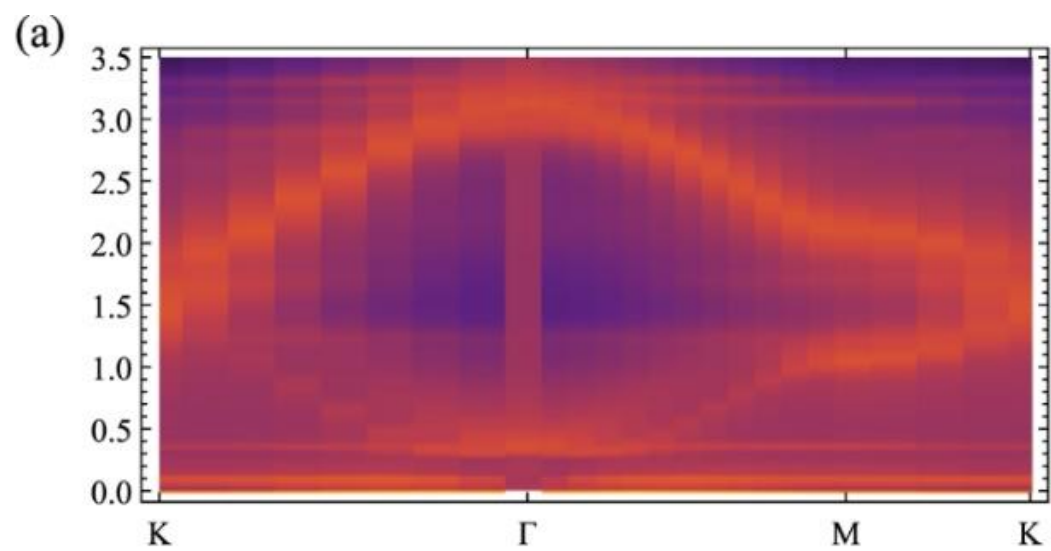
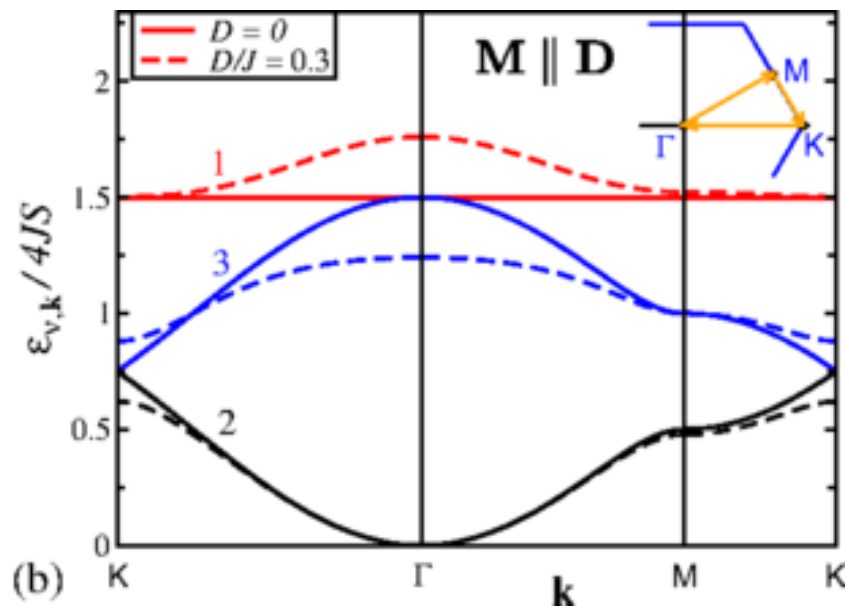
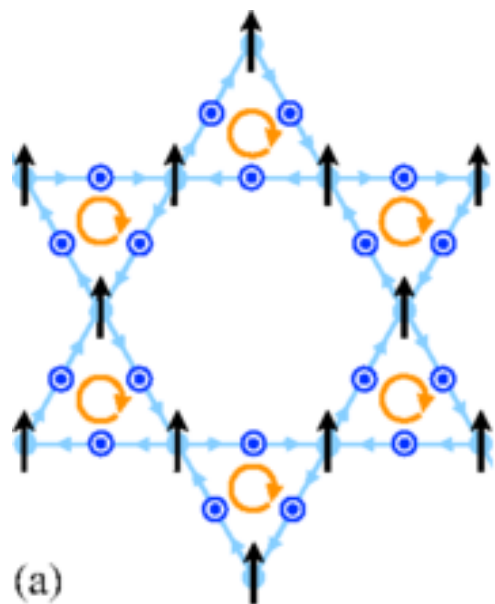
(c)

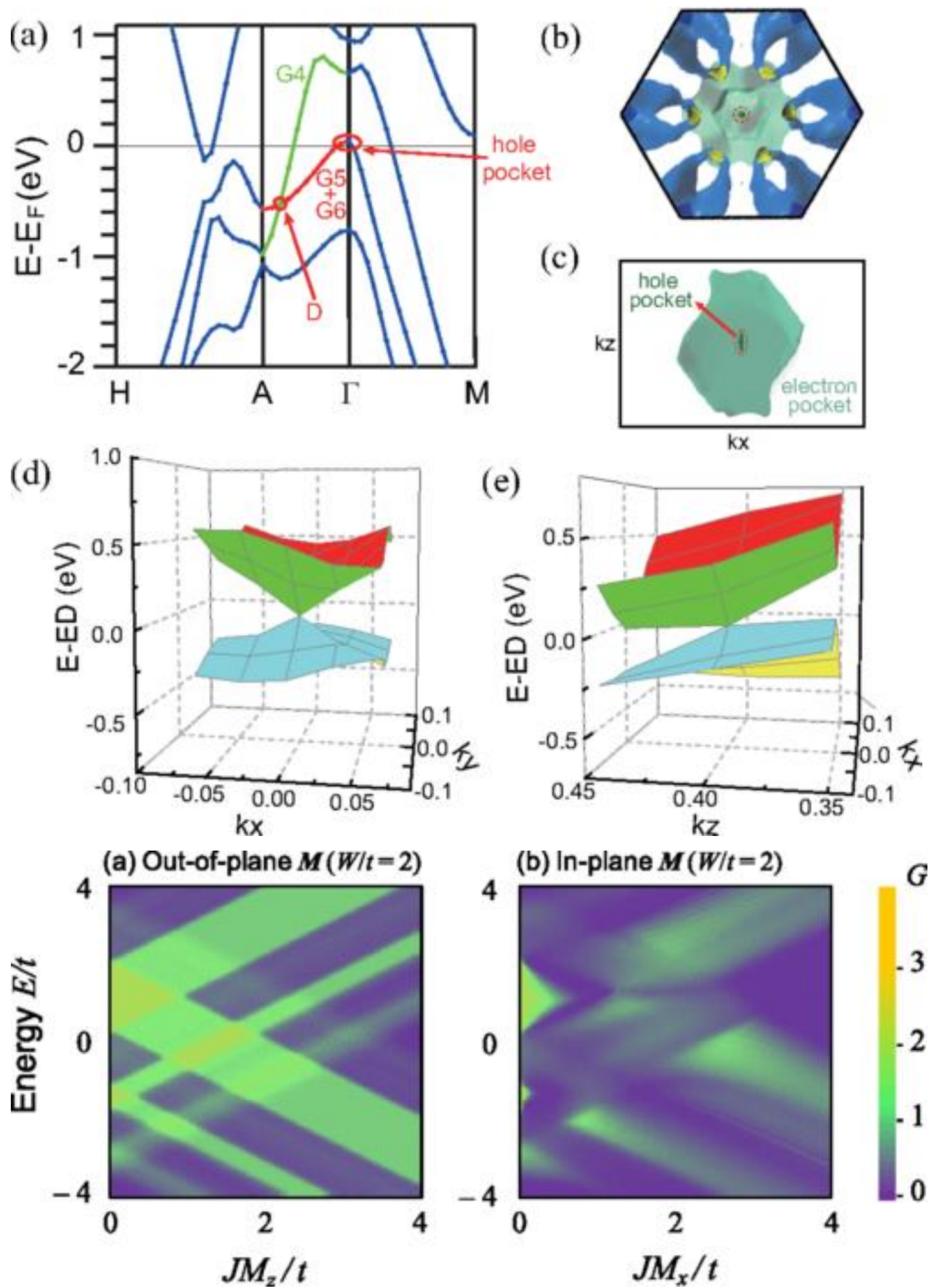


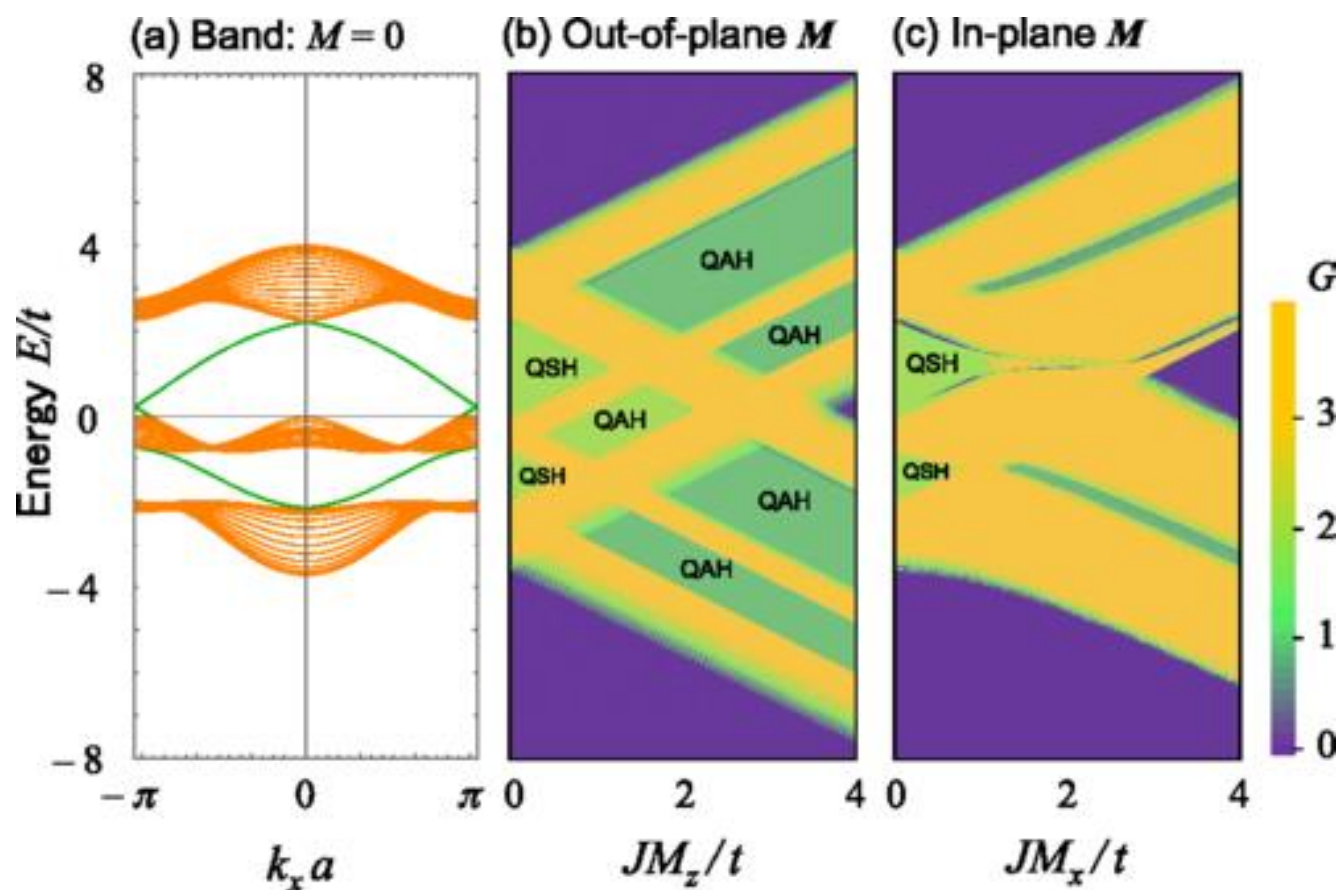
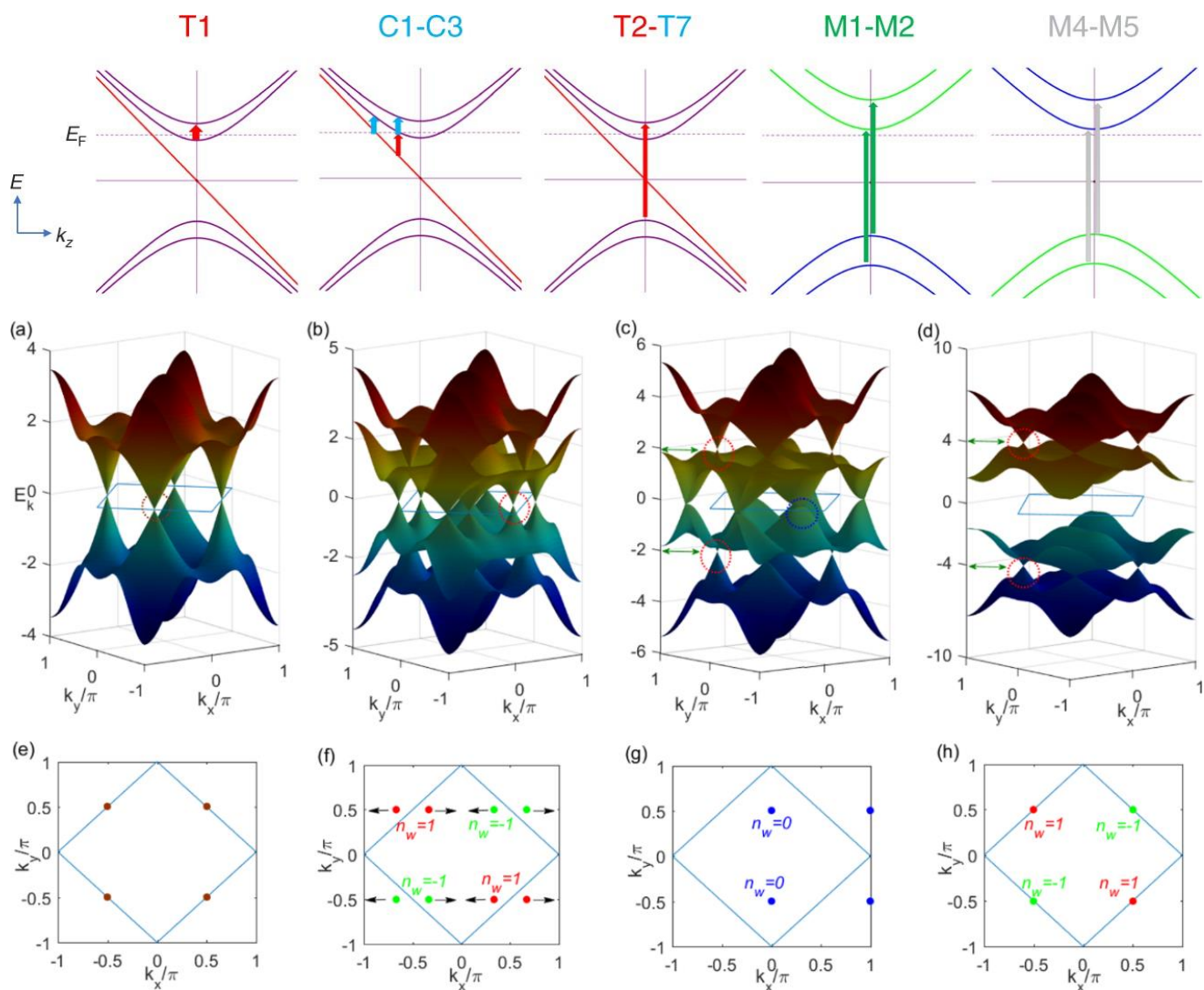




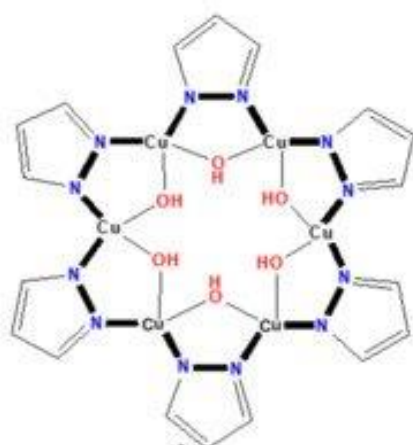
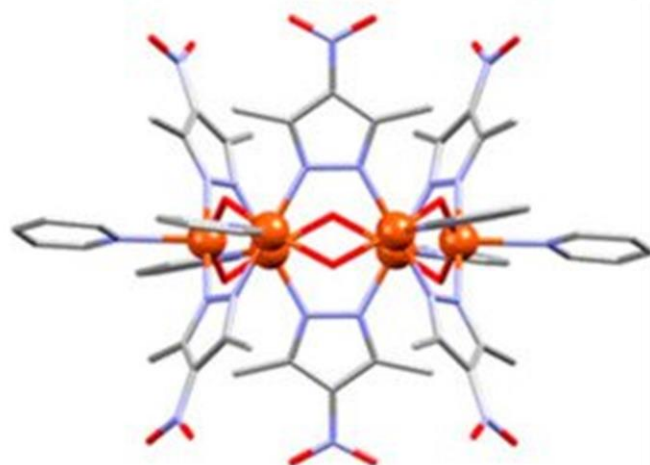




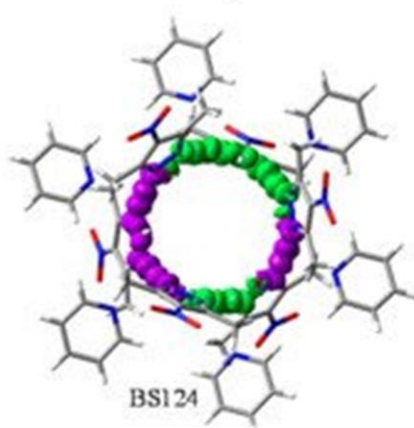
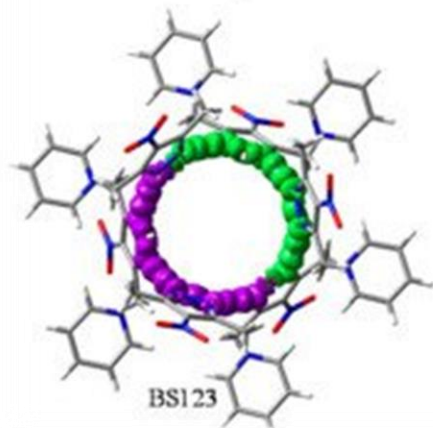
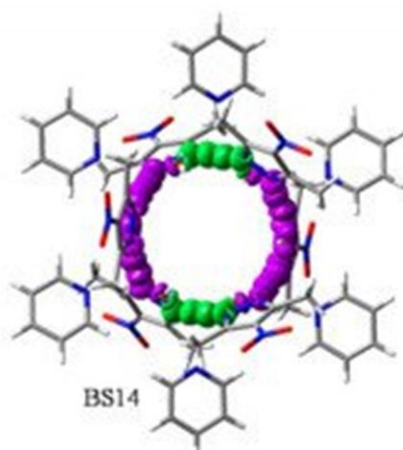
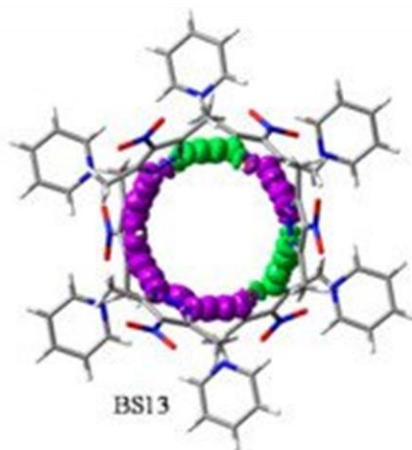
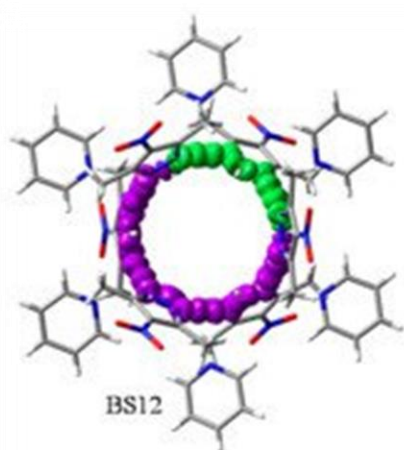


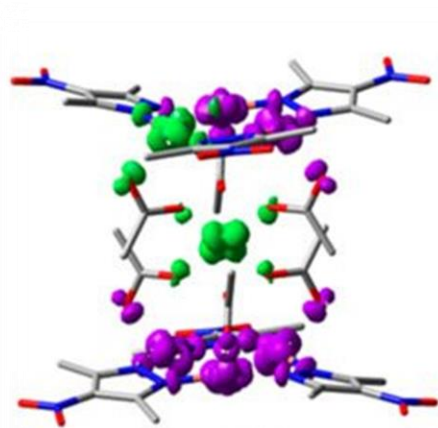




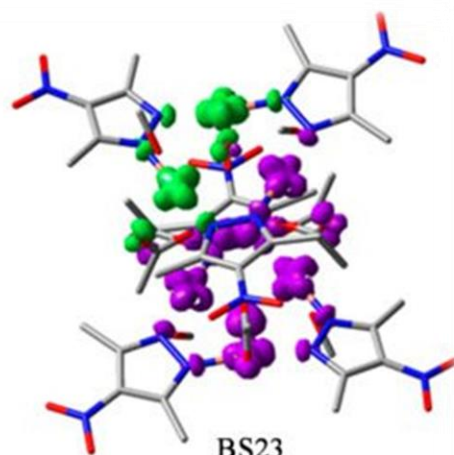


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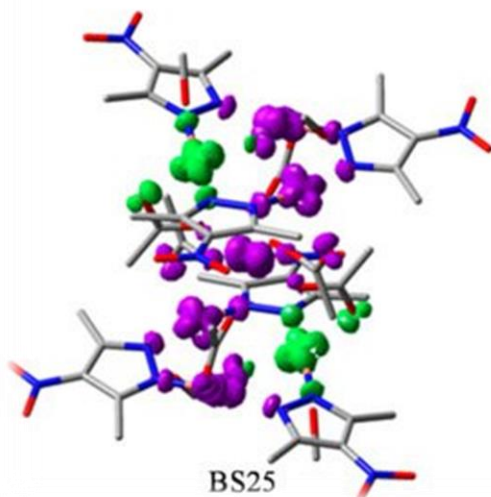




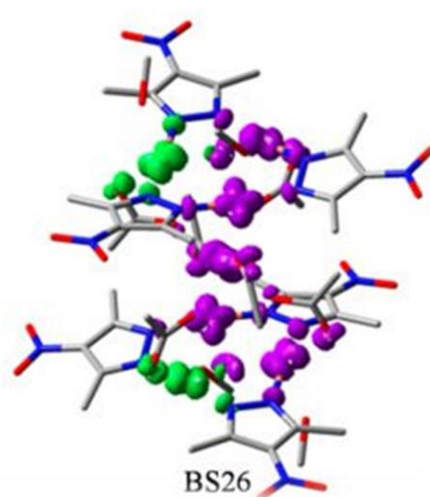
BS12



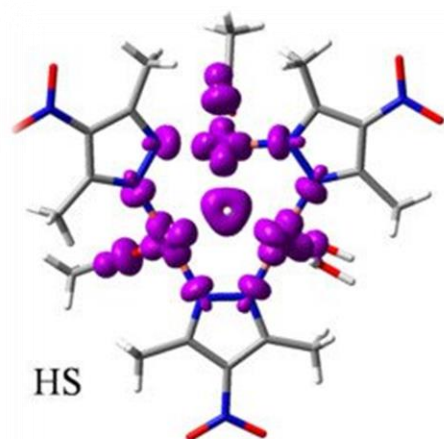
BS23



BS25



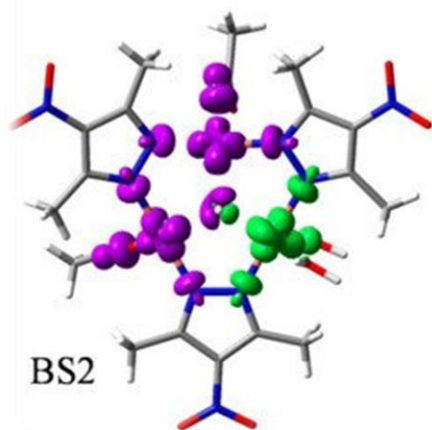
BS26



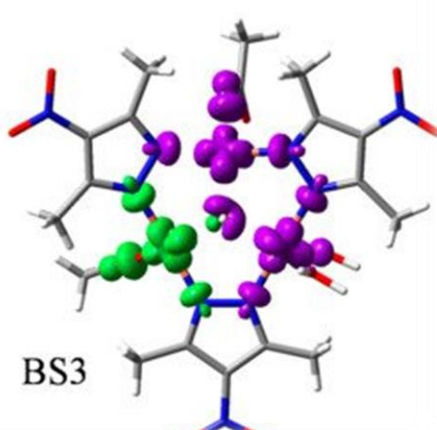
HS



BS1

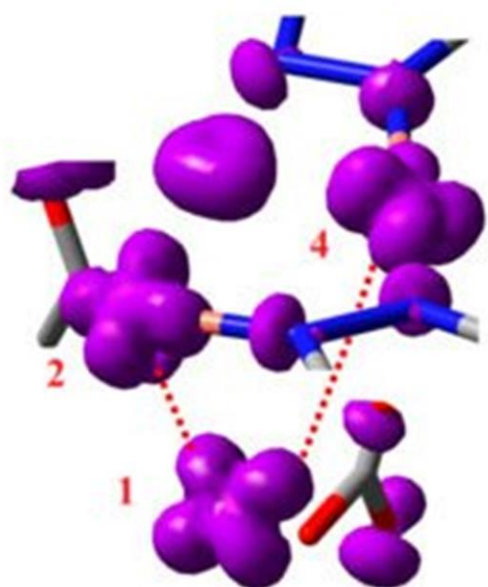


BS2

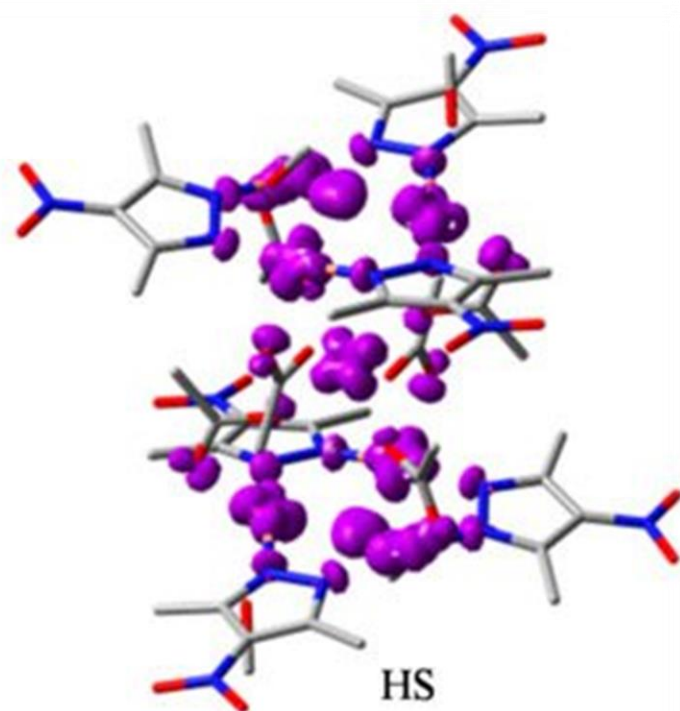


BS3

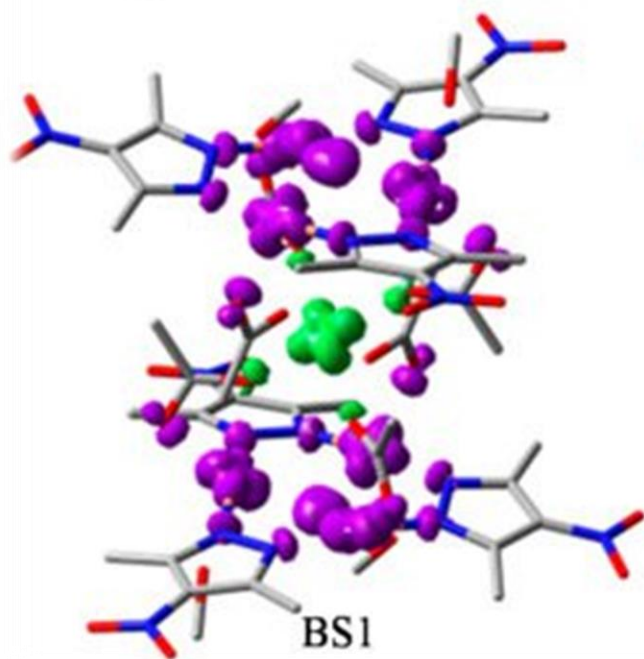




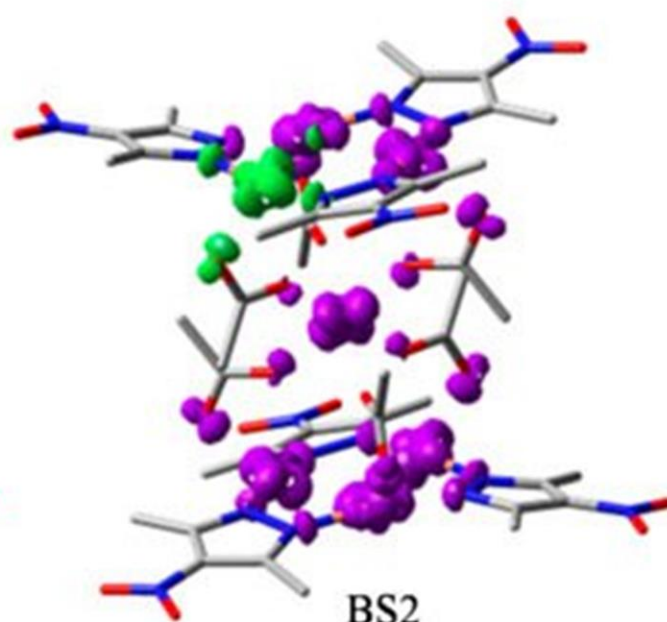
Spin density on selected magnetic orbitals (close-up)



HS

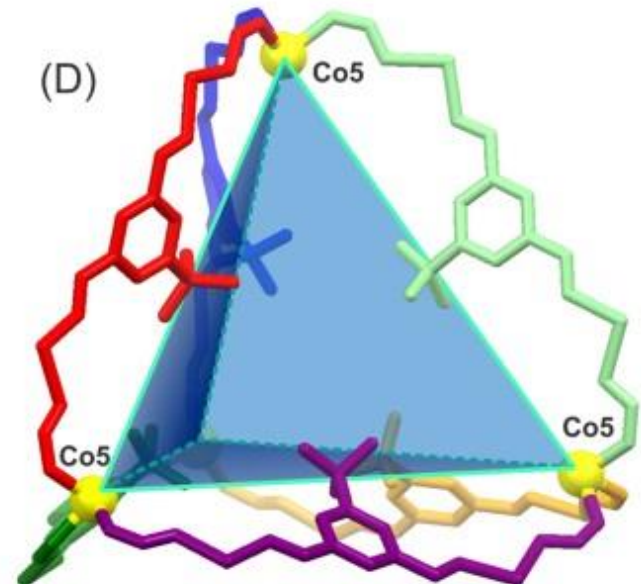
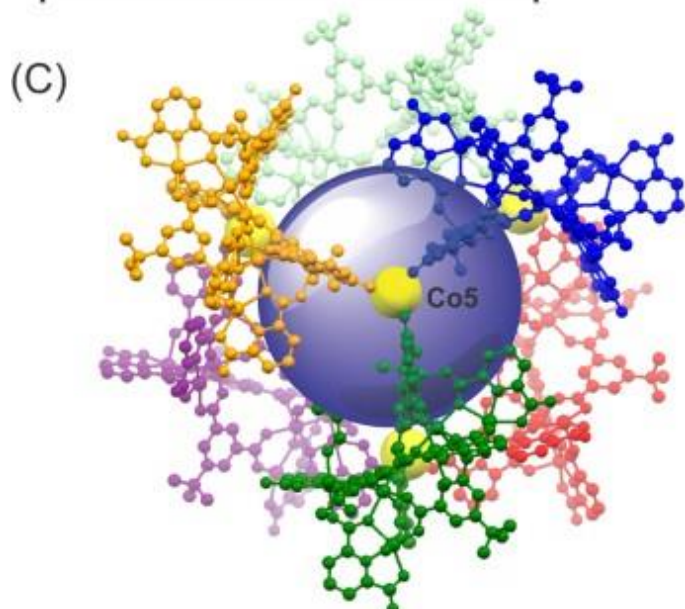
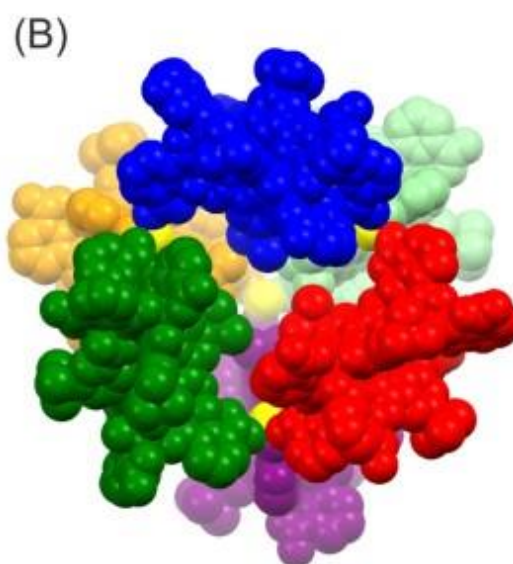
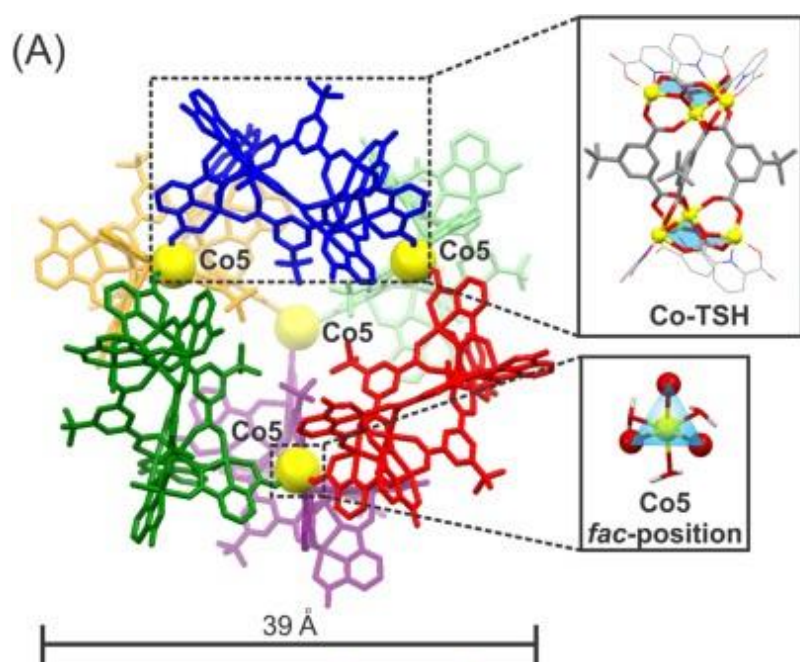
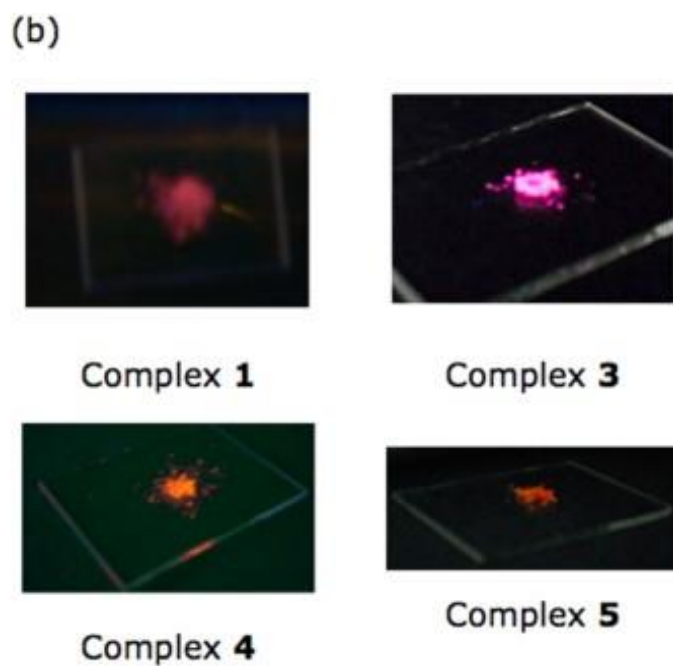
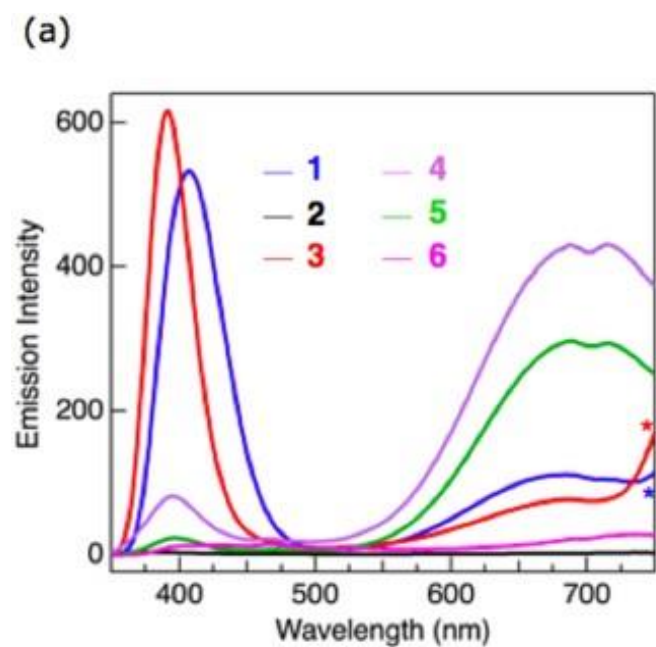


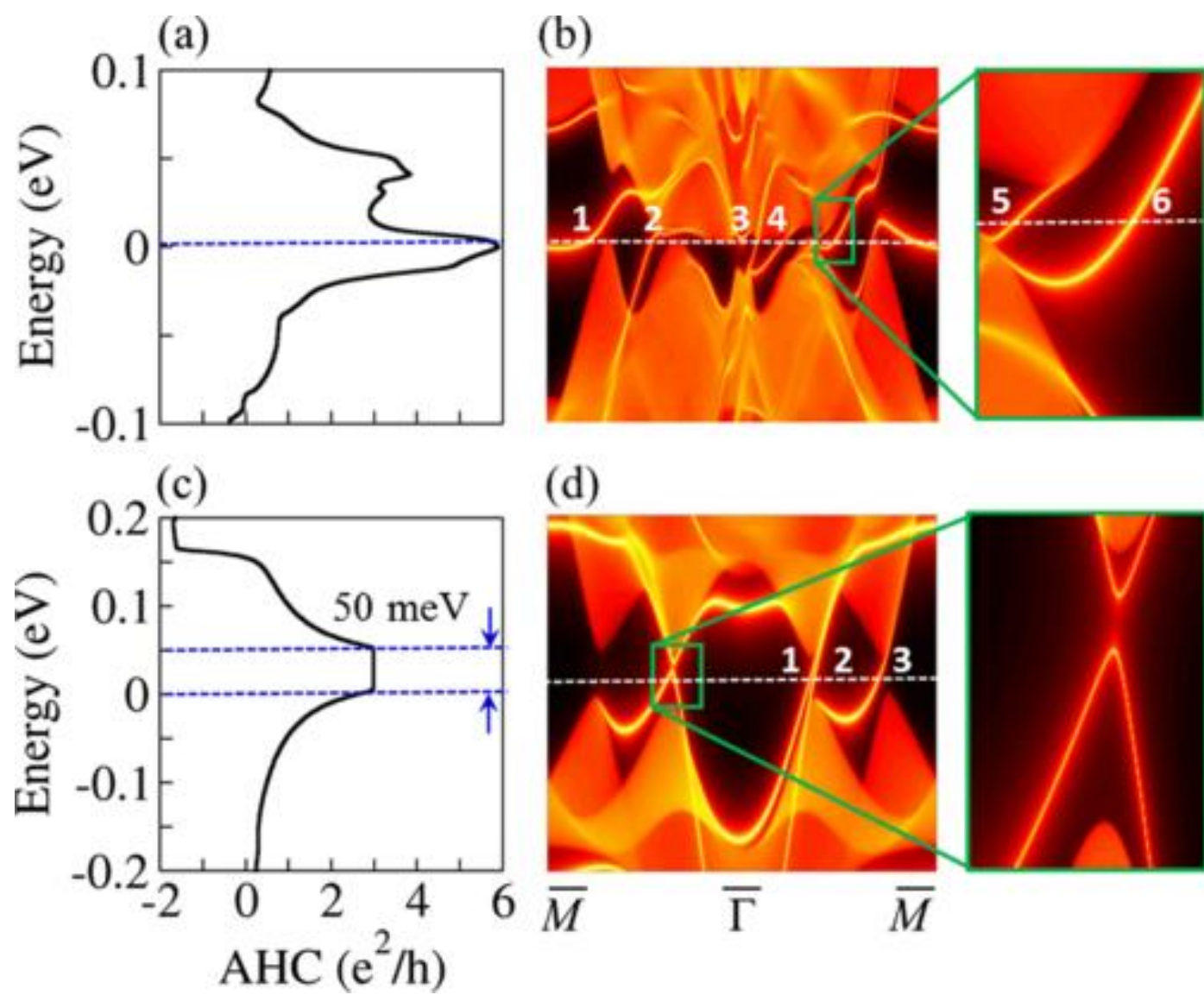
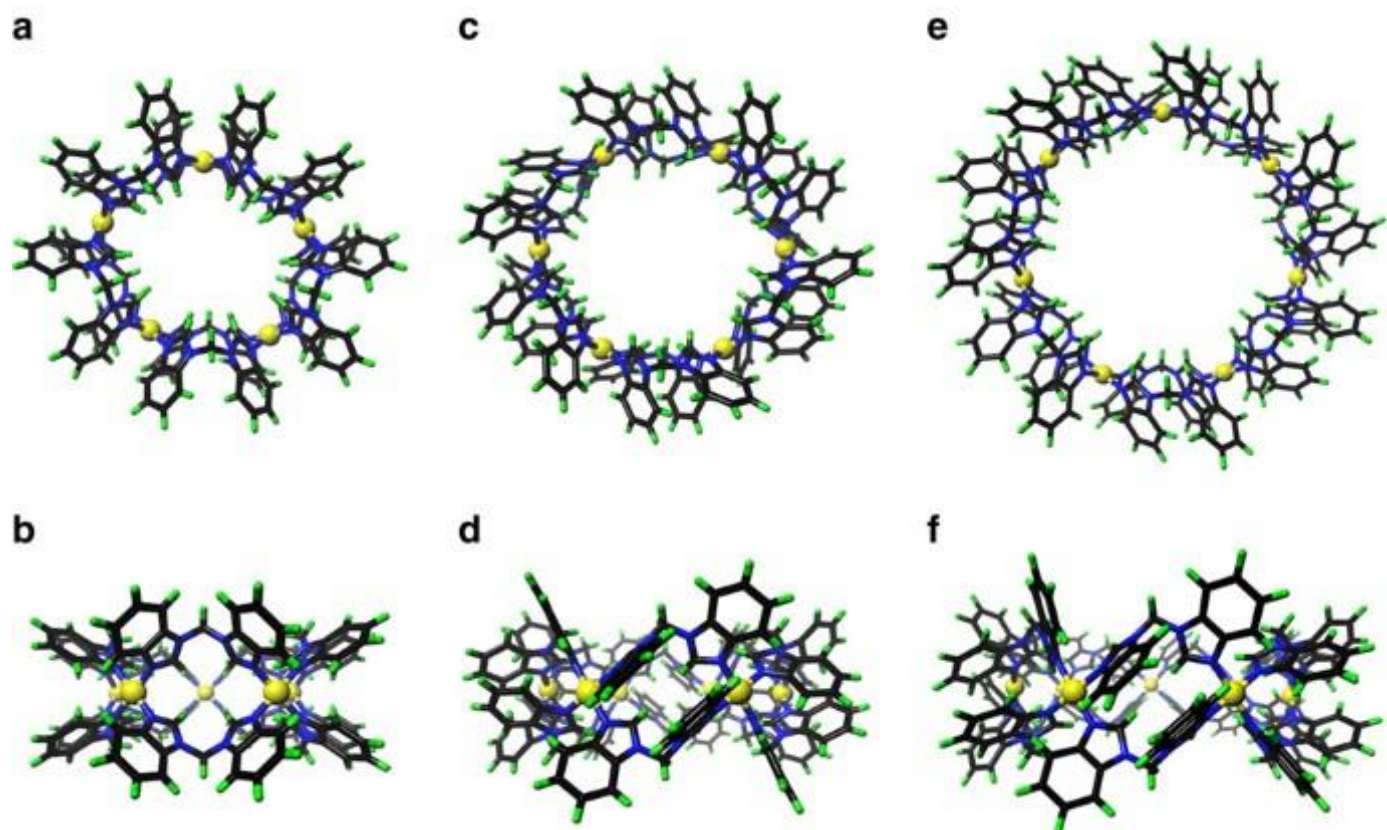
BS1



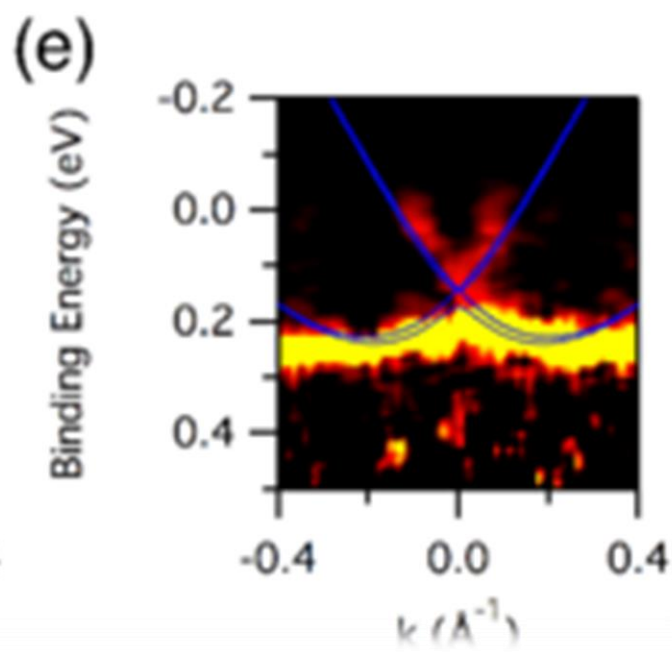
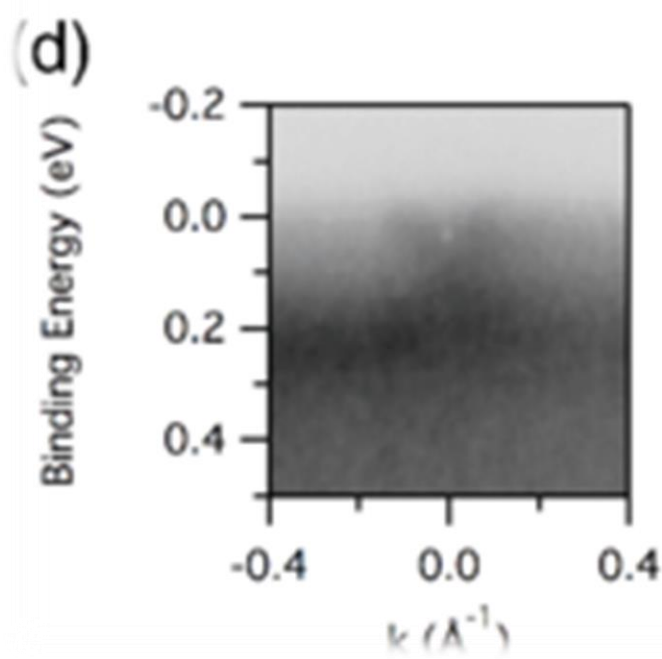
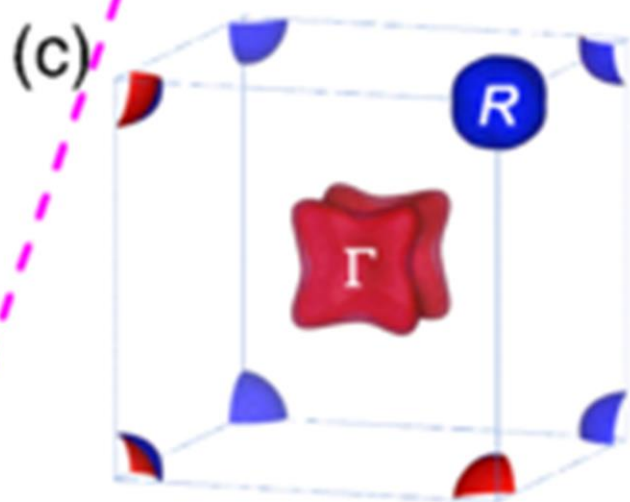
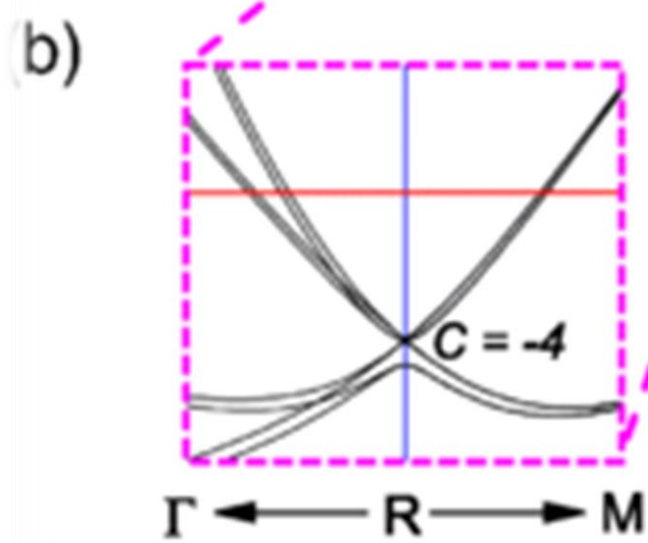
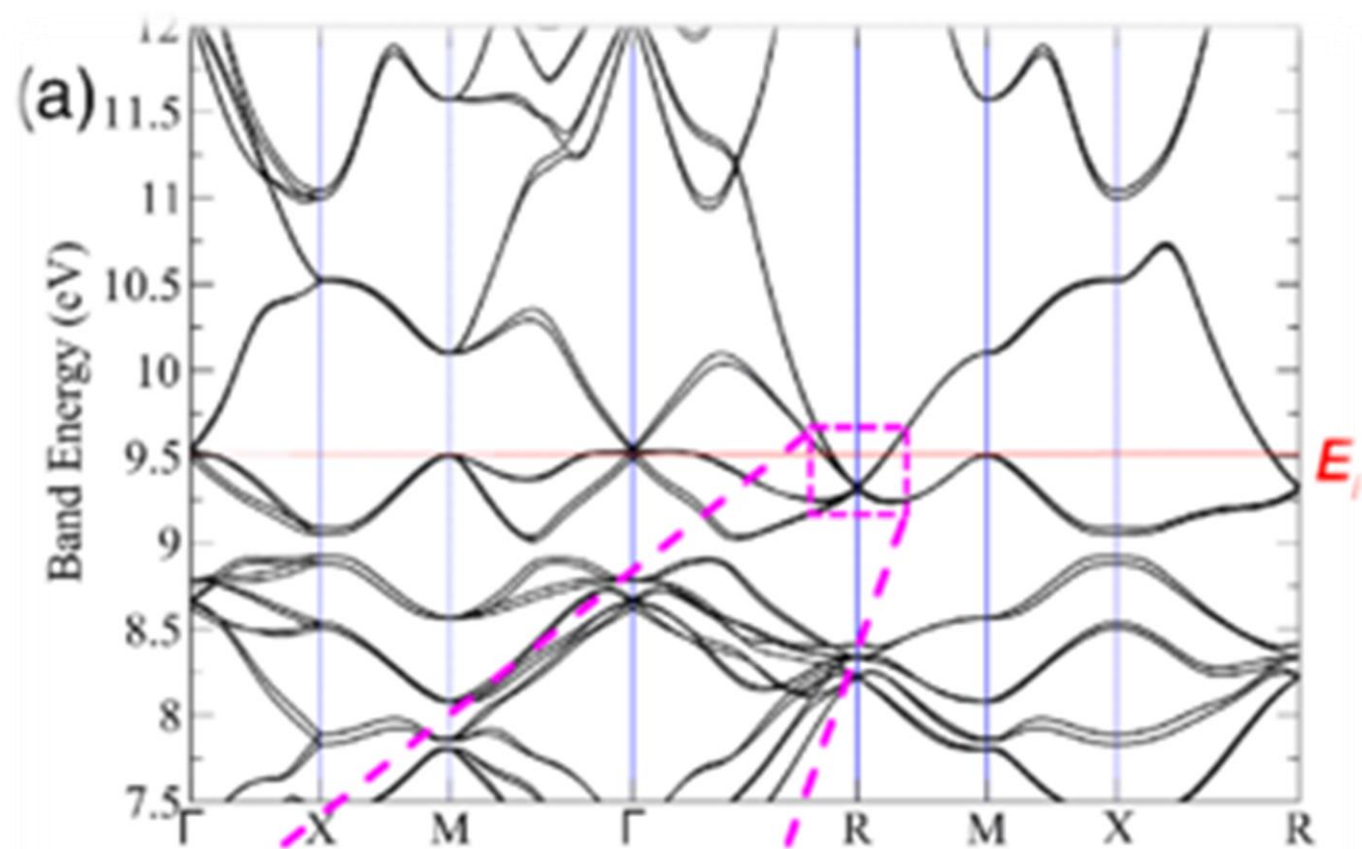
BS2



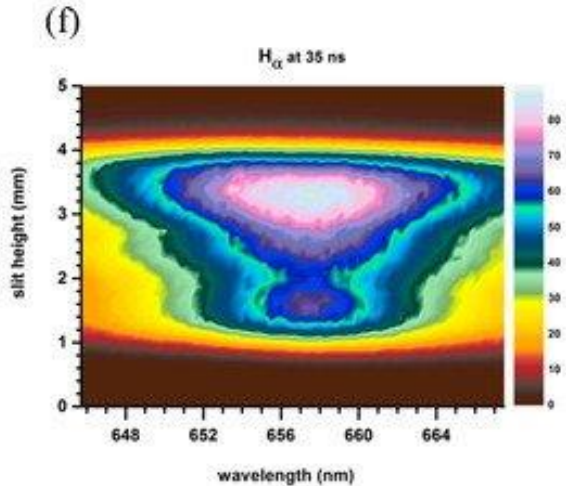
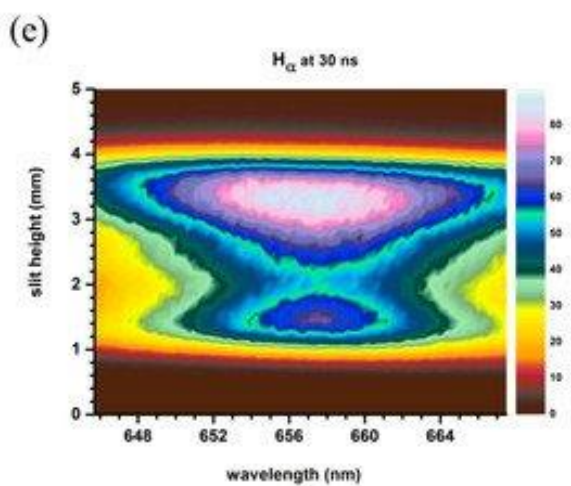
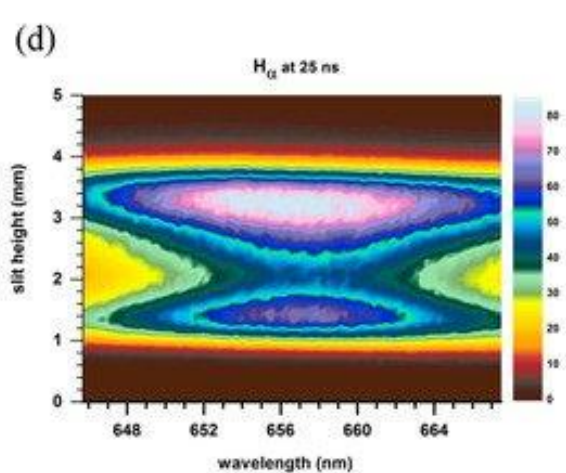
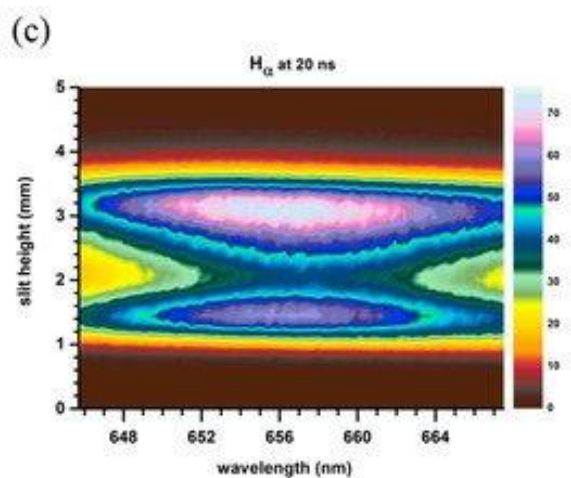
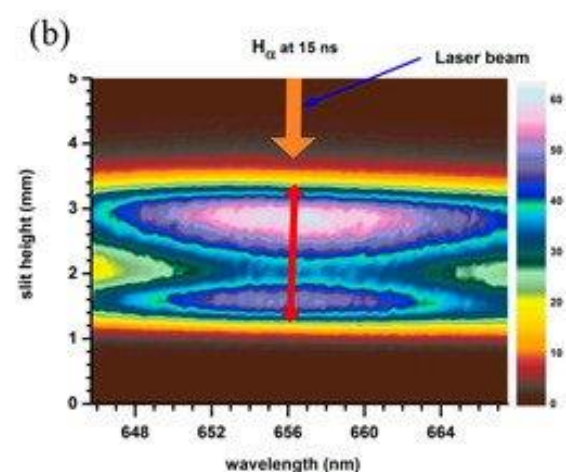
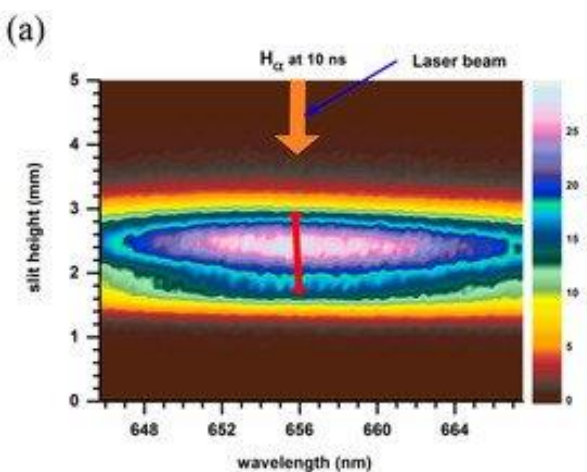
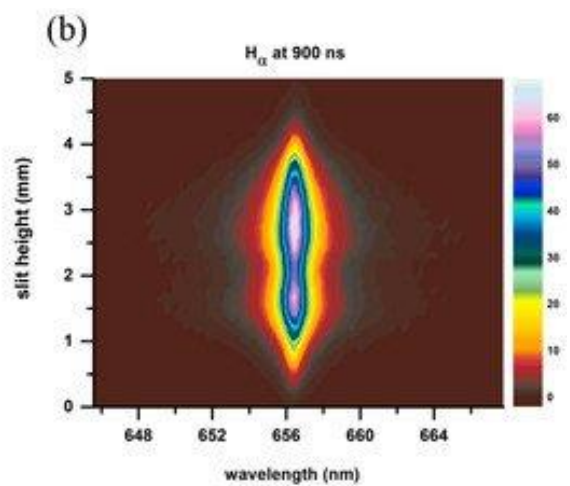
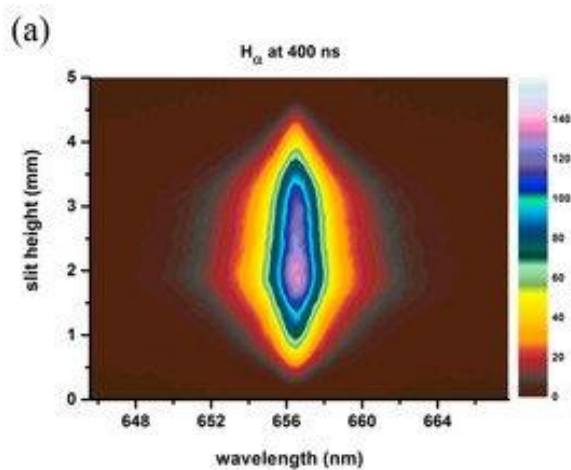


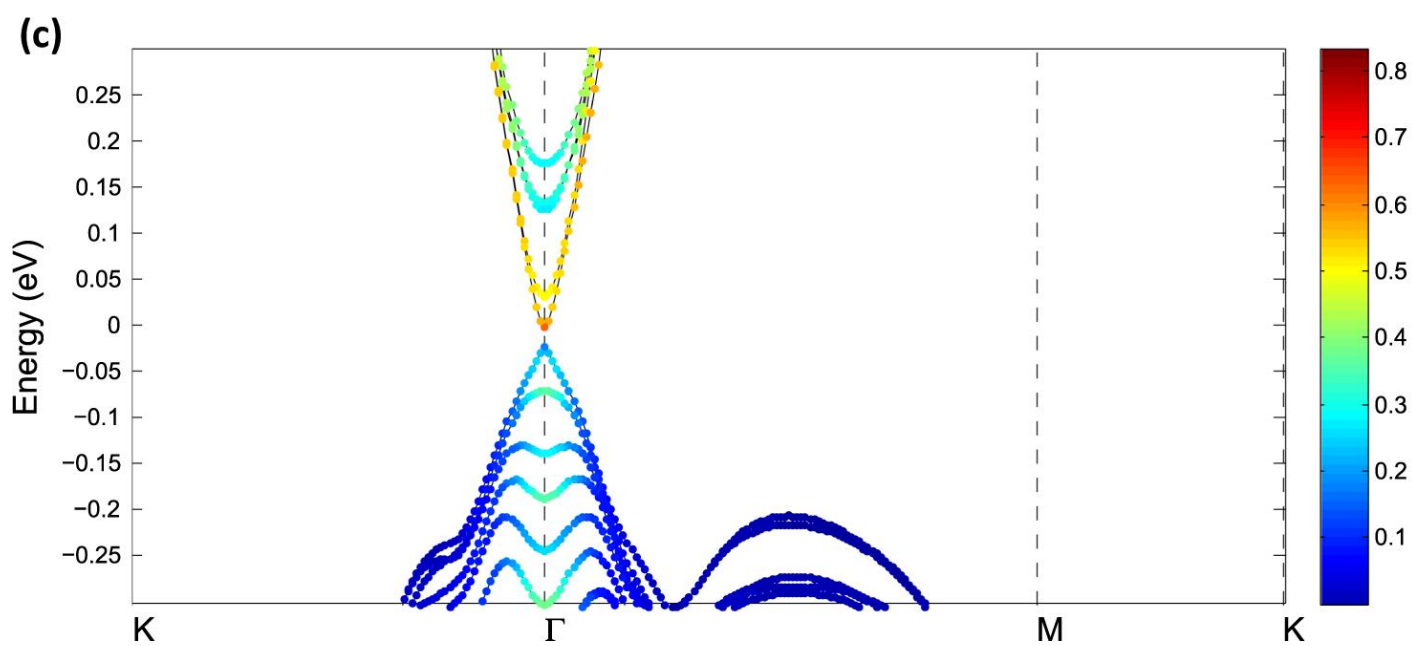
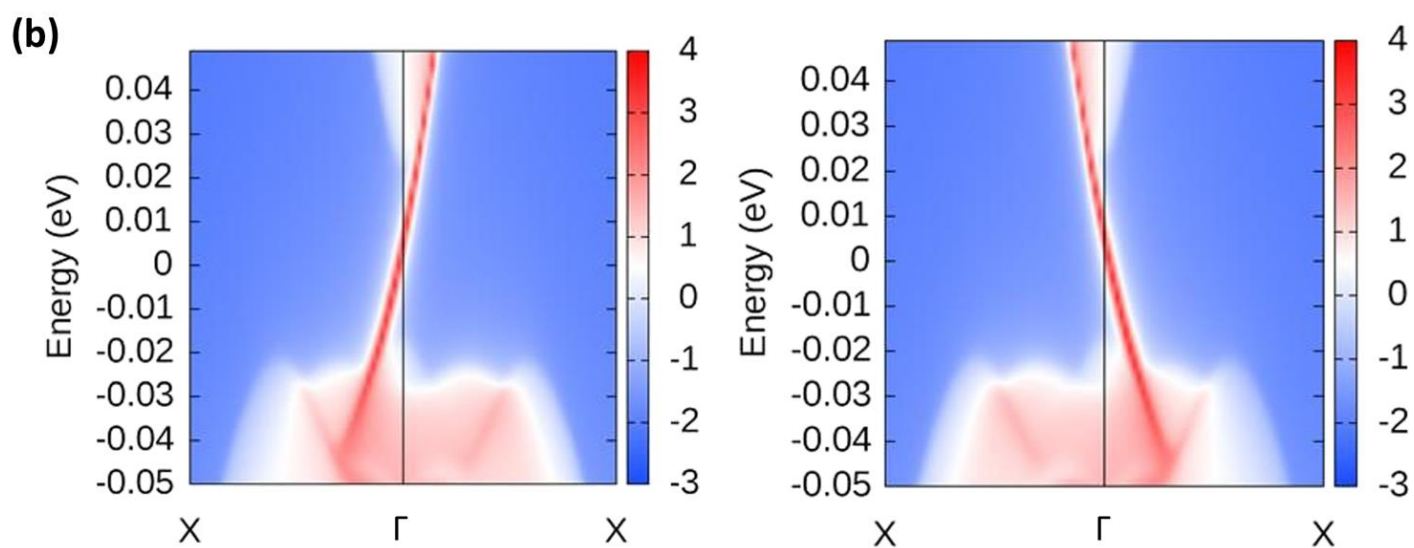
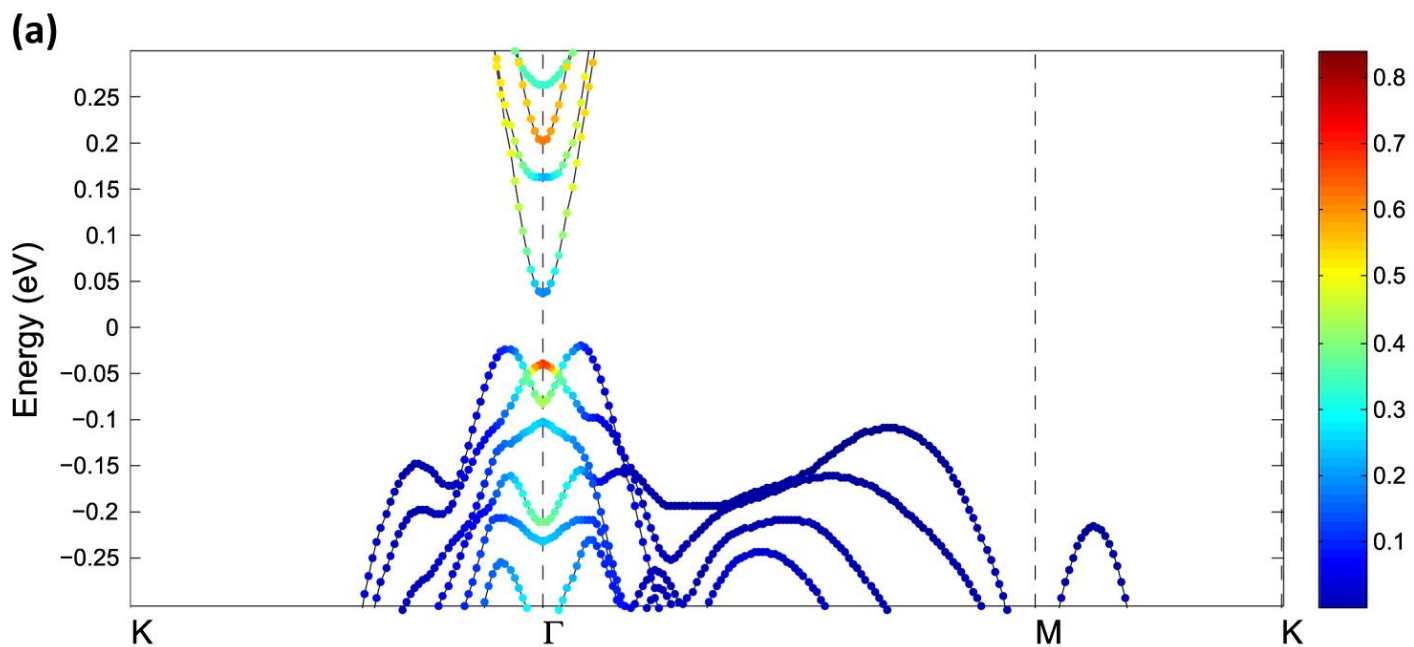


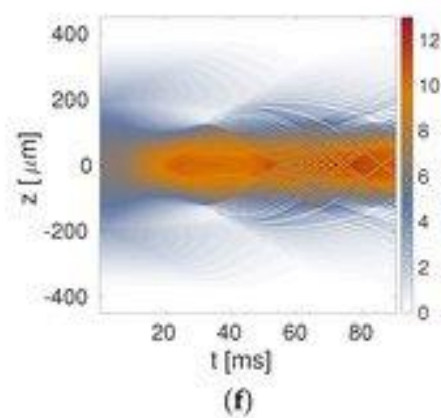
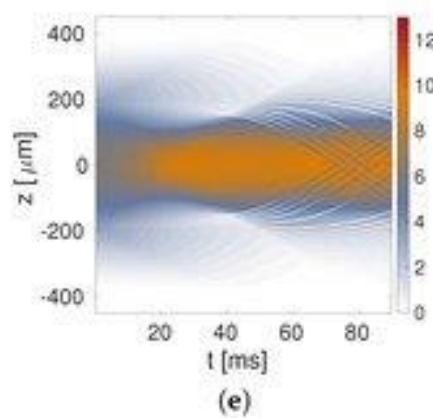
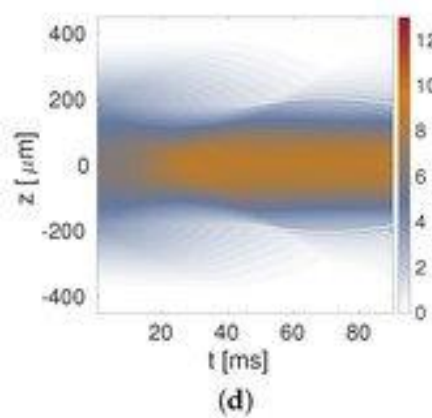
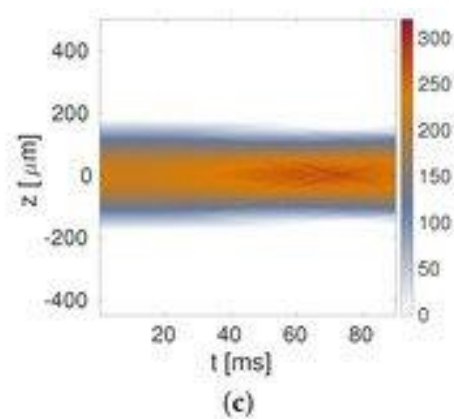
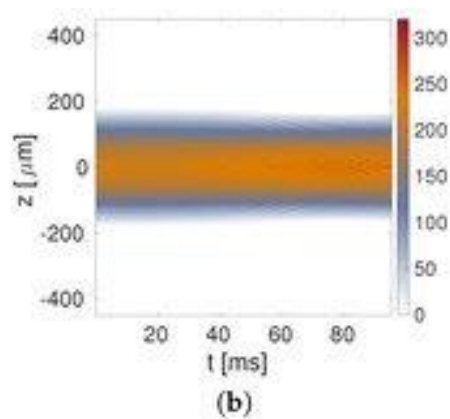
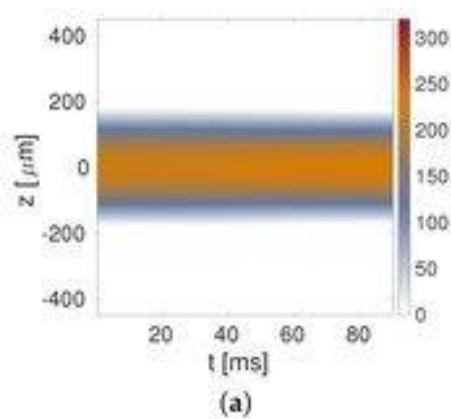
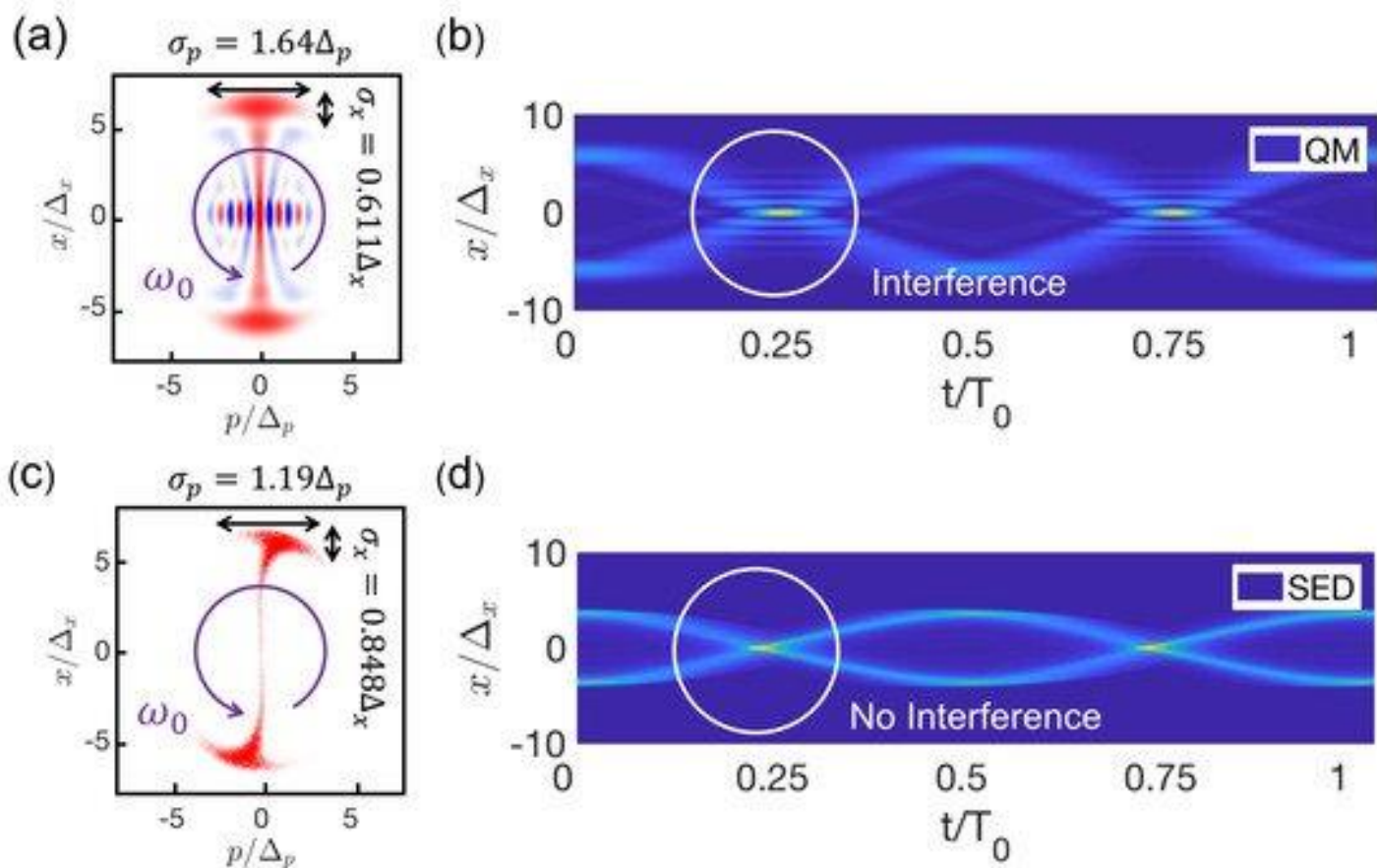




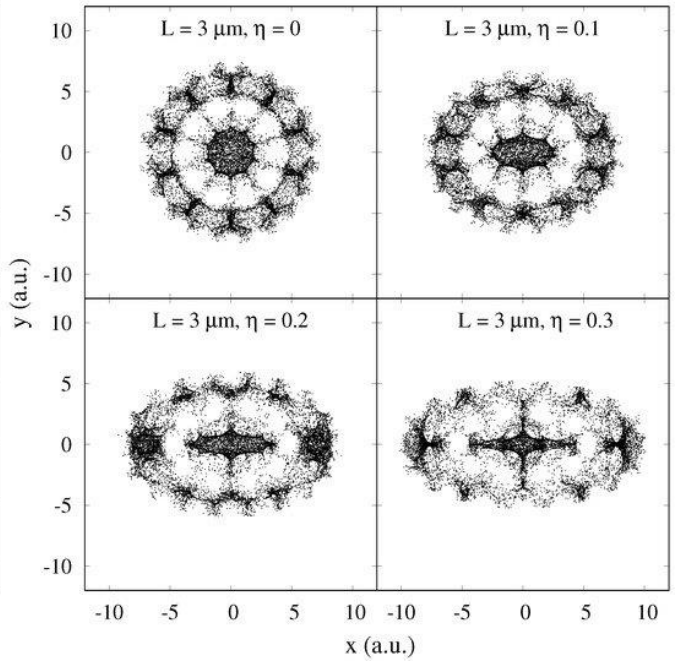
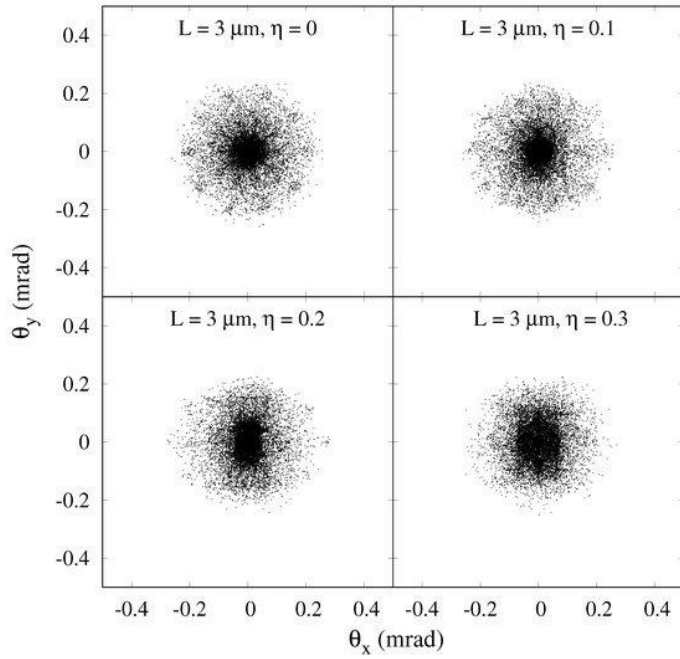
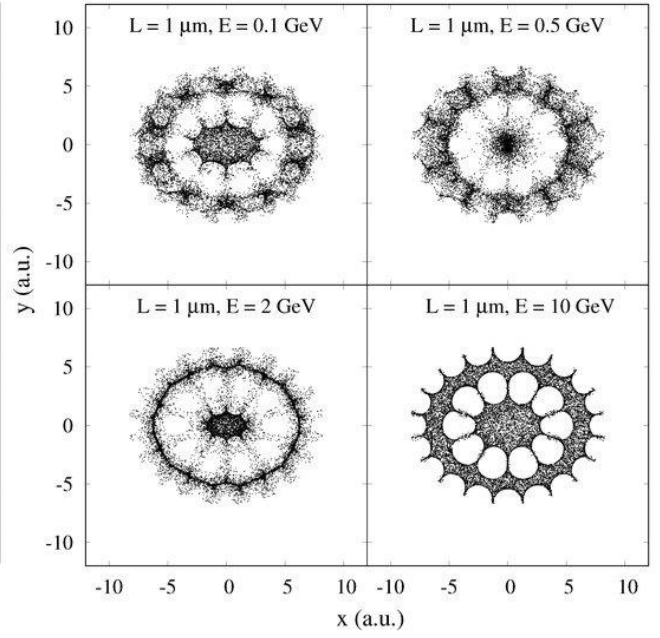
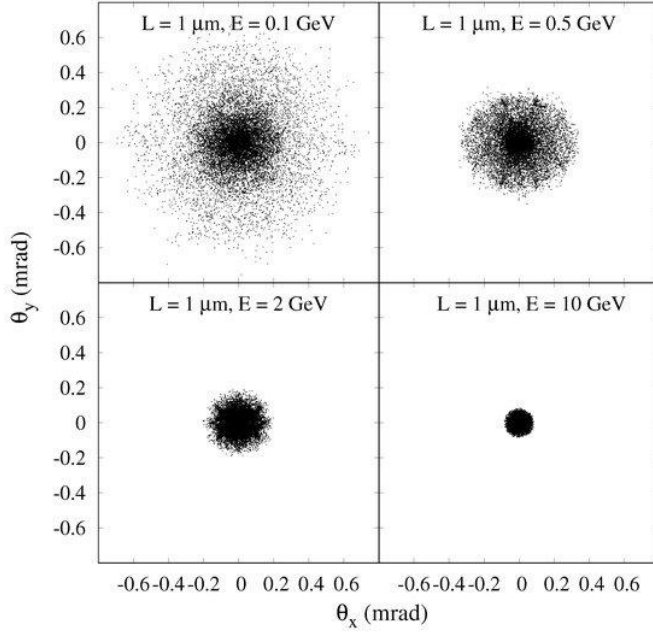
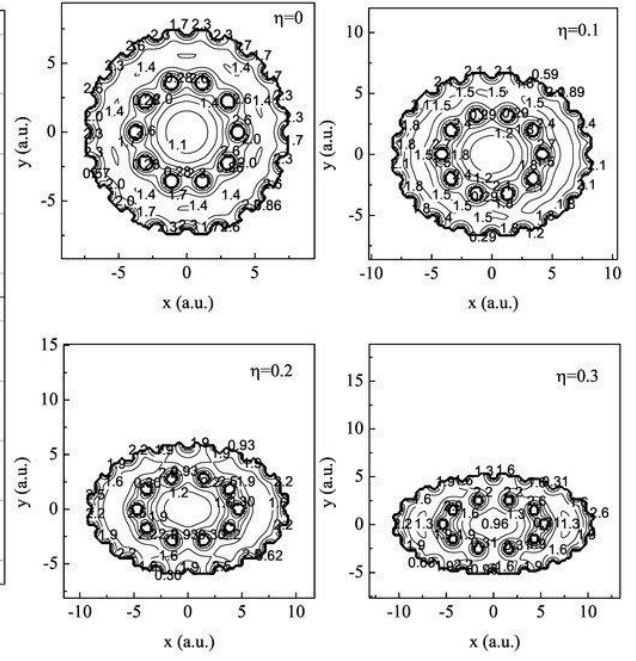
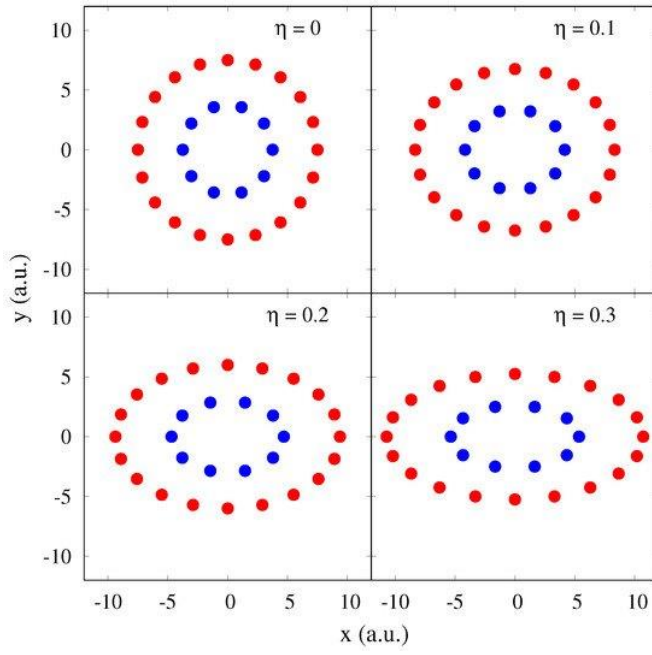


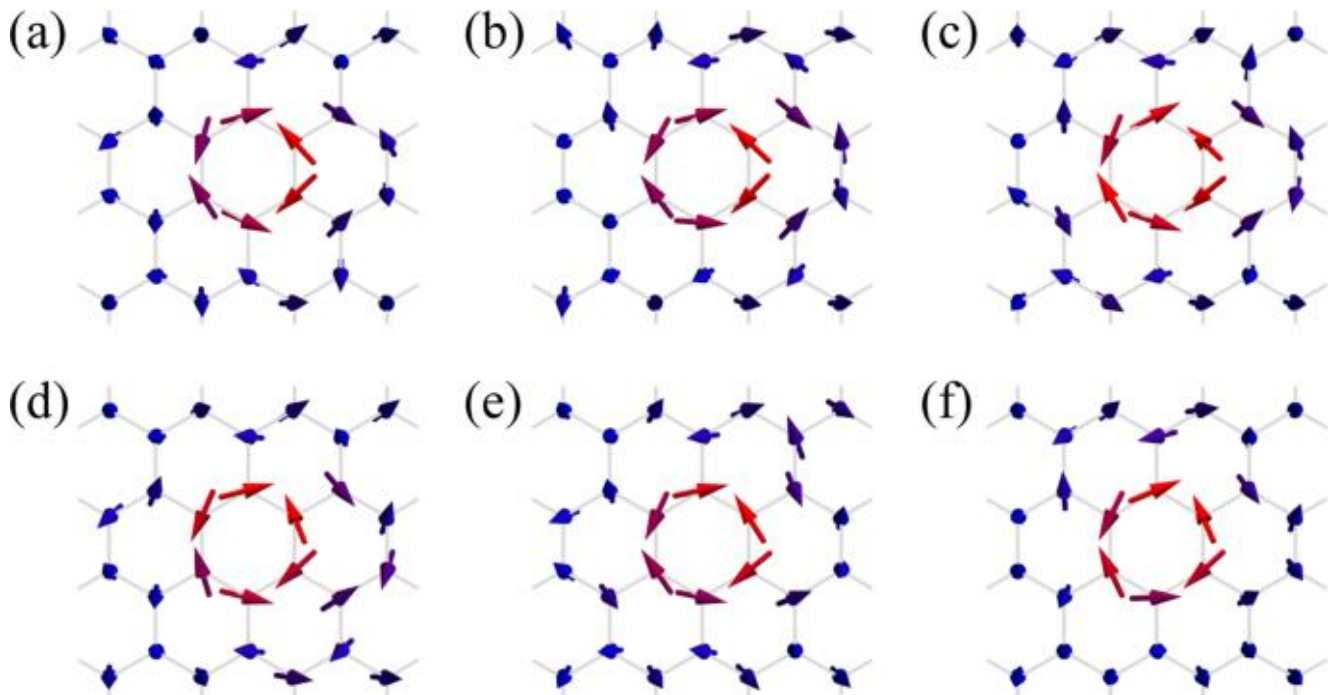
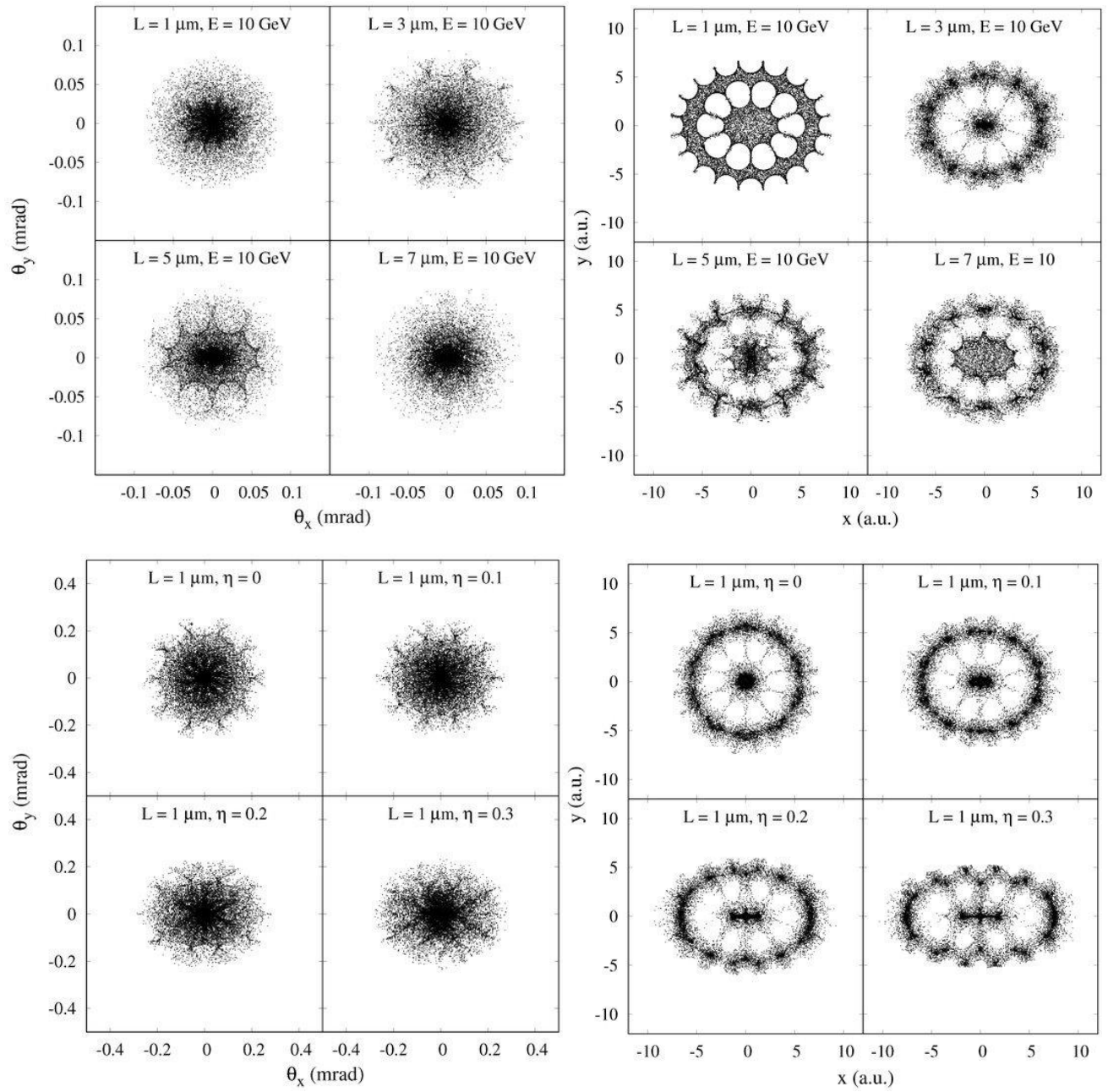




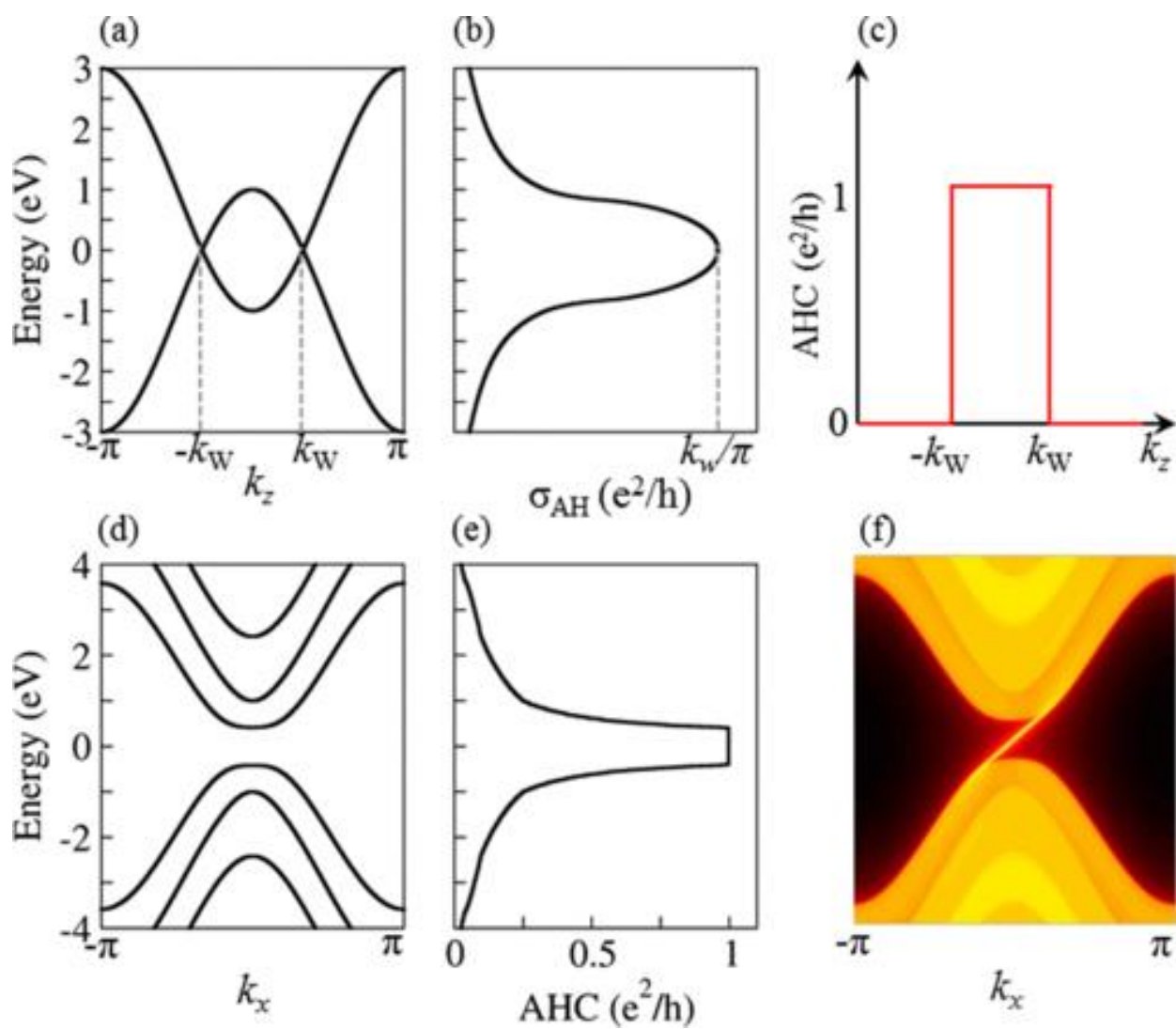
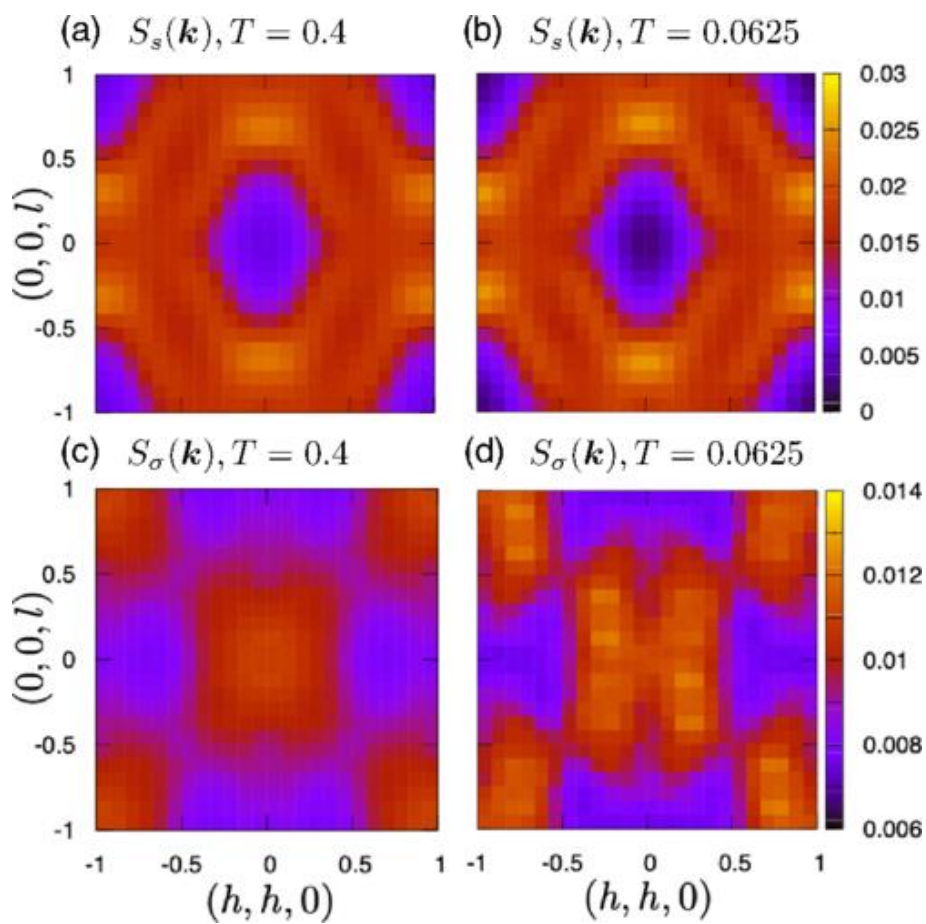






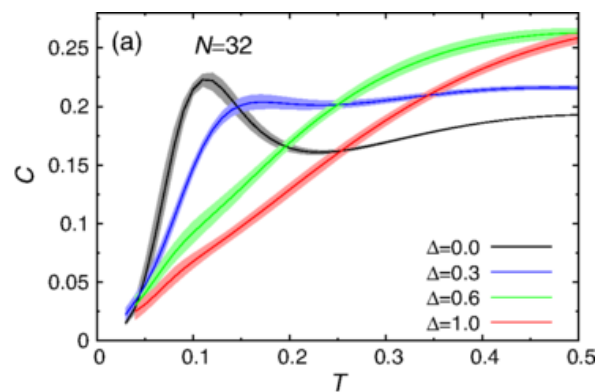
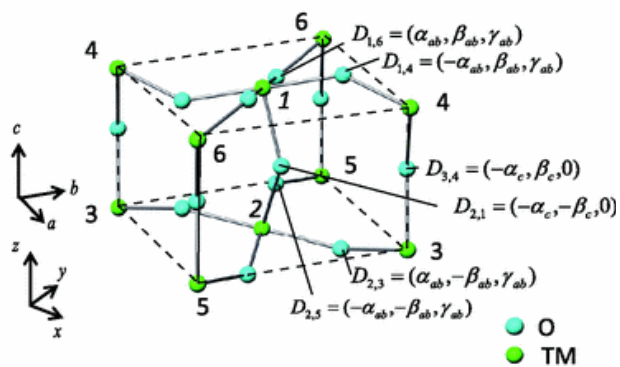




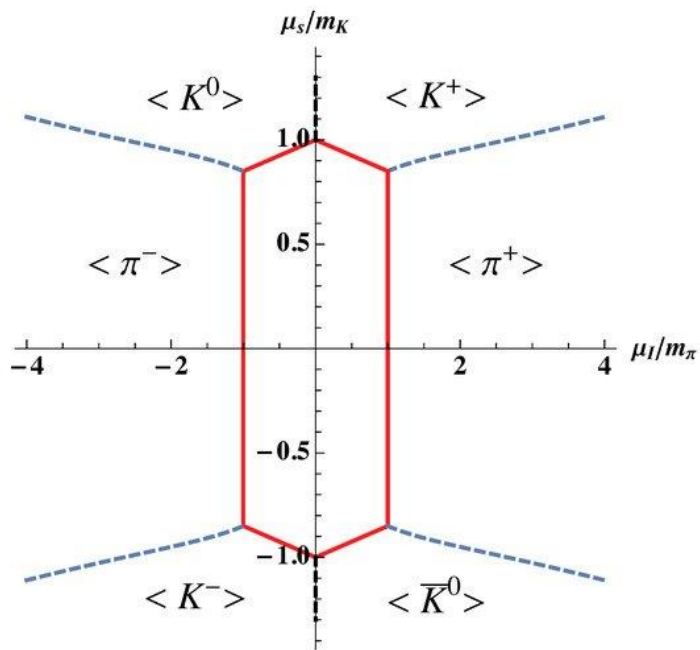
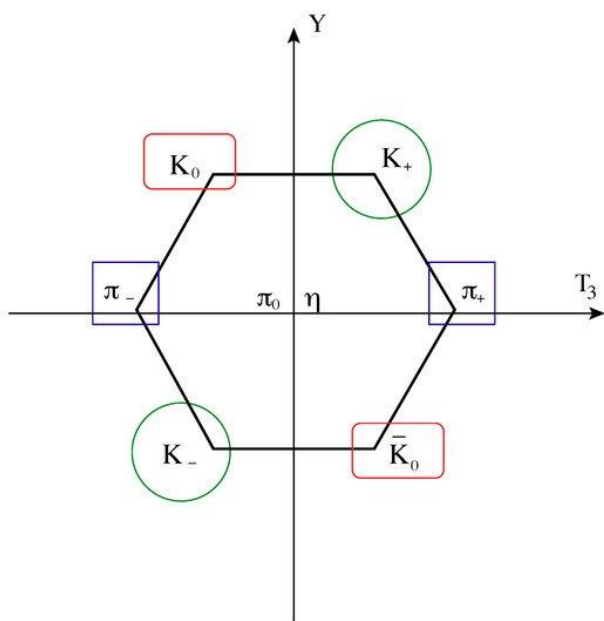
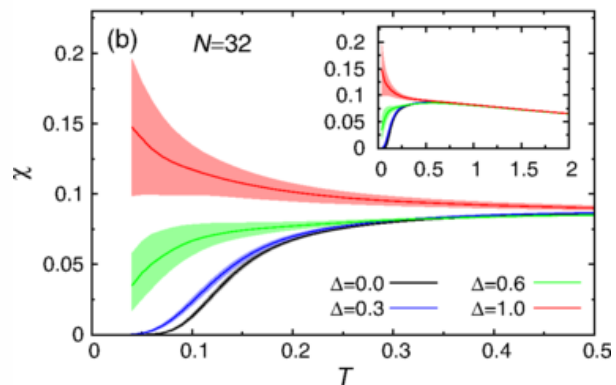
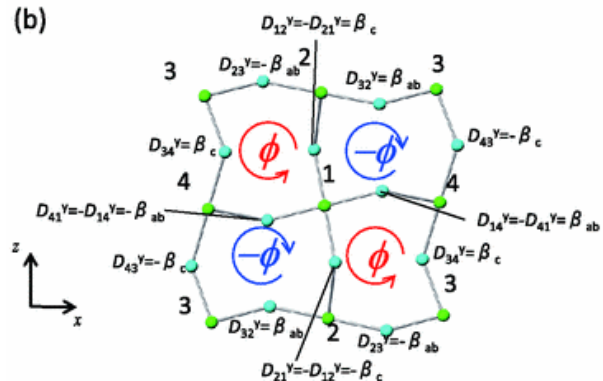




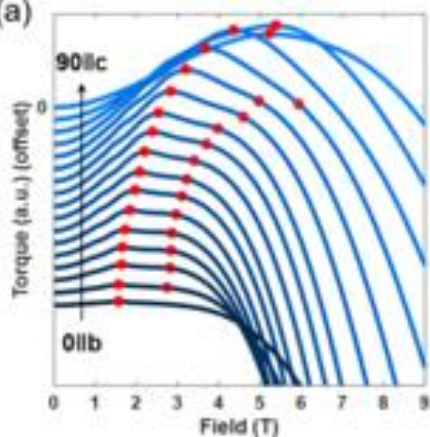
(a)



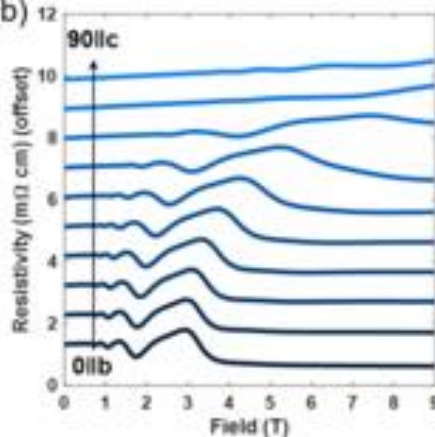
(b)



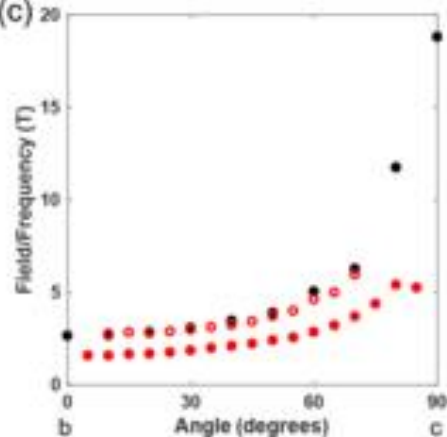
(a)

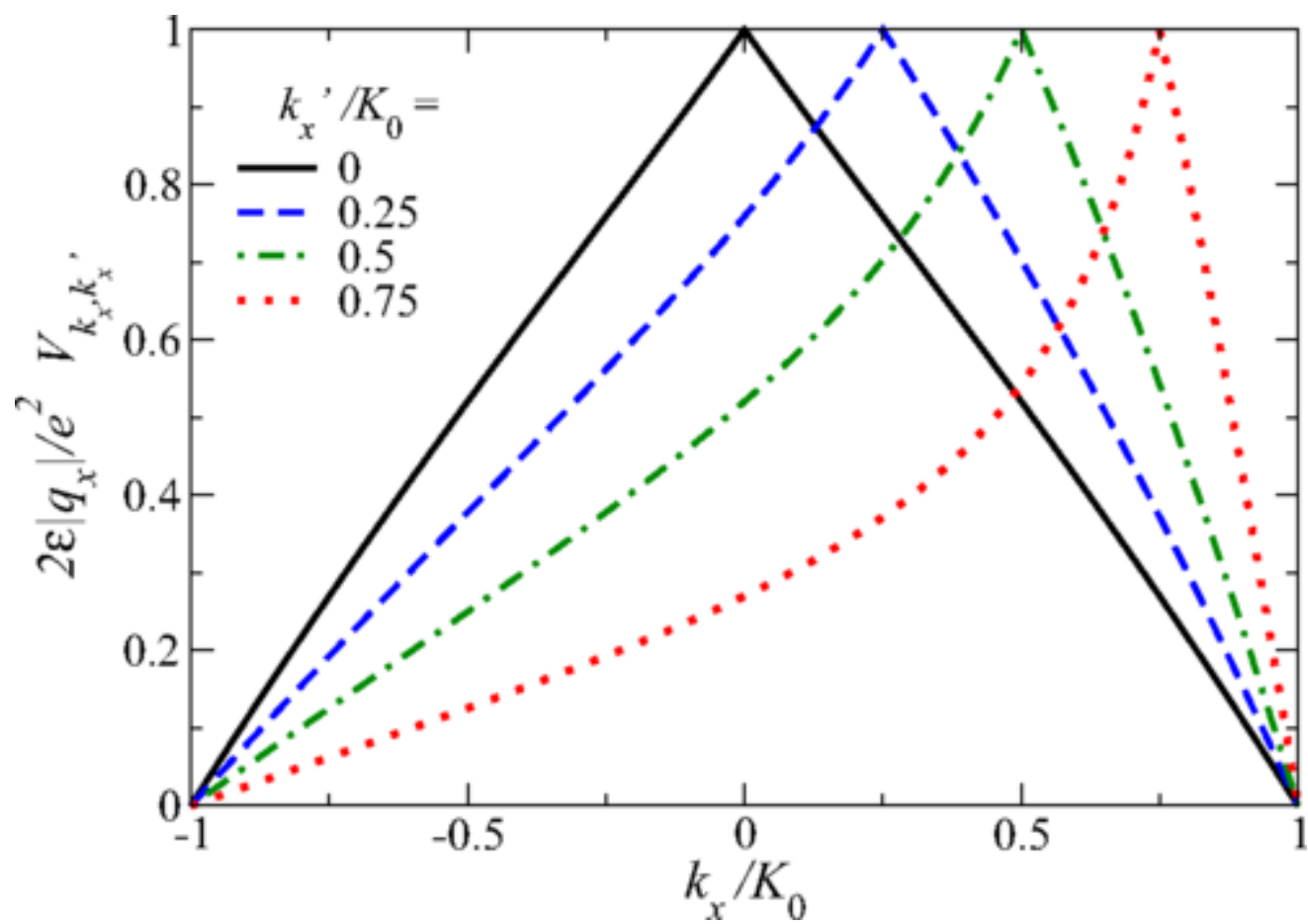
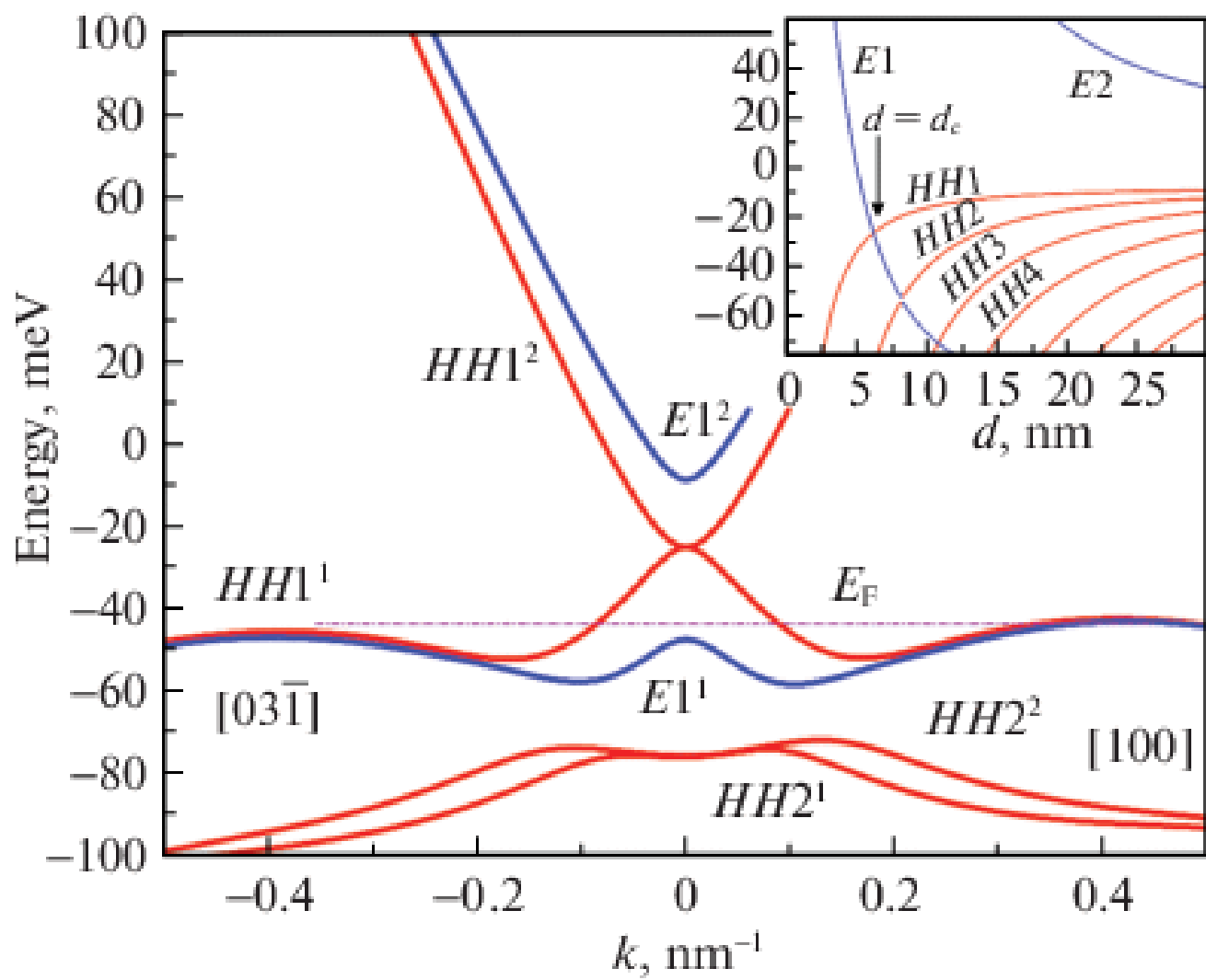


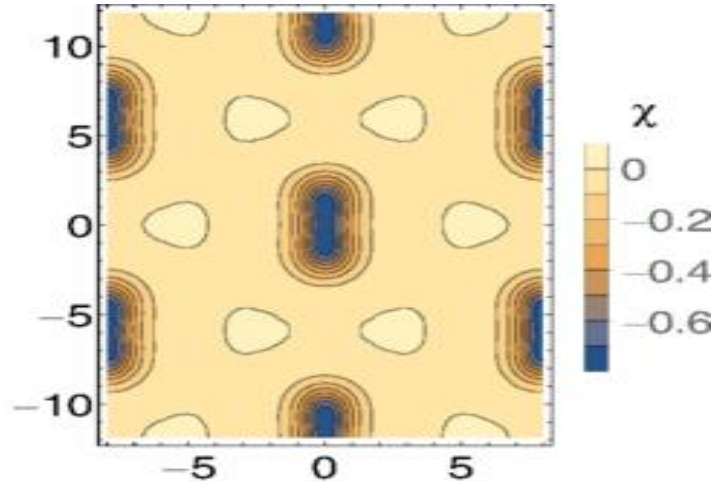
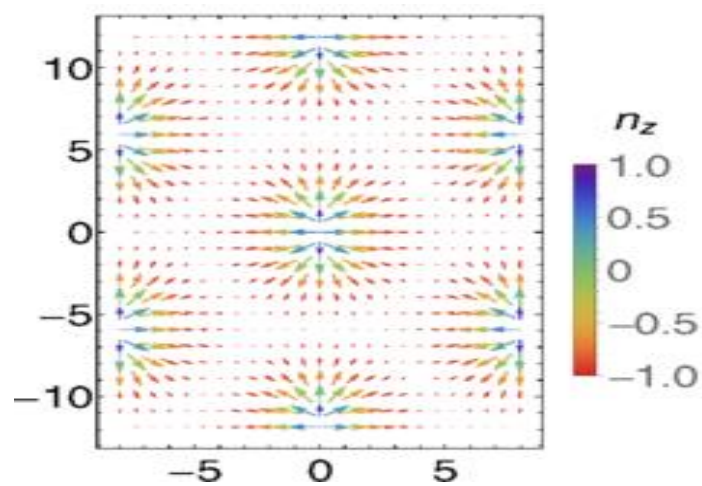
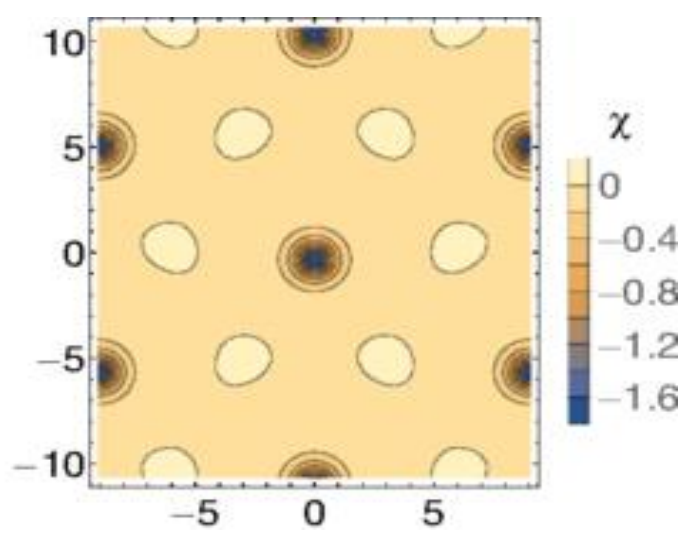
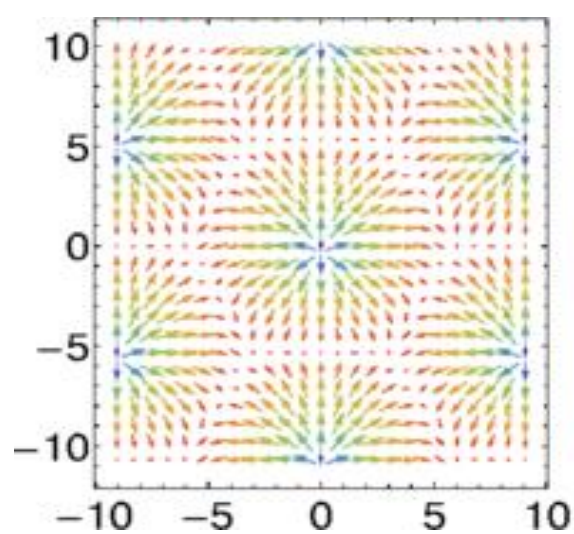
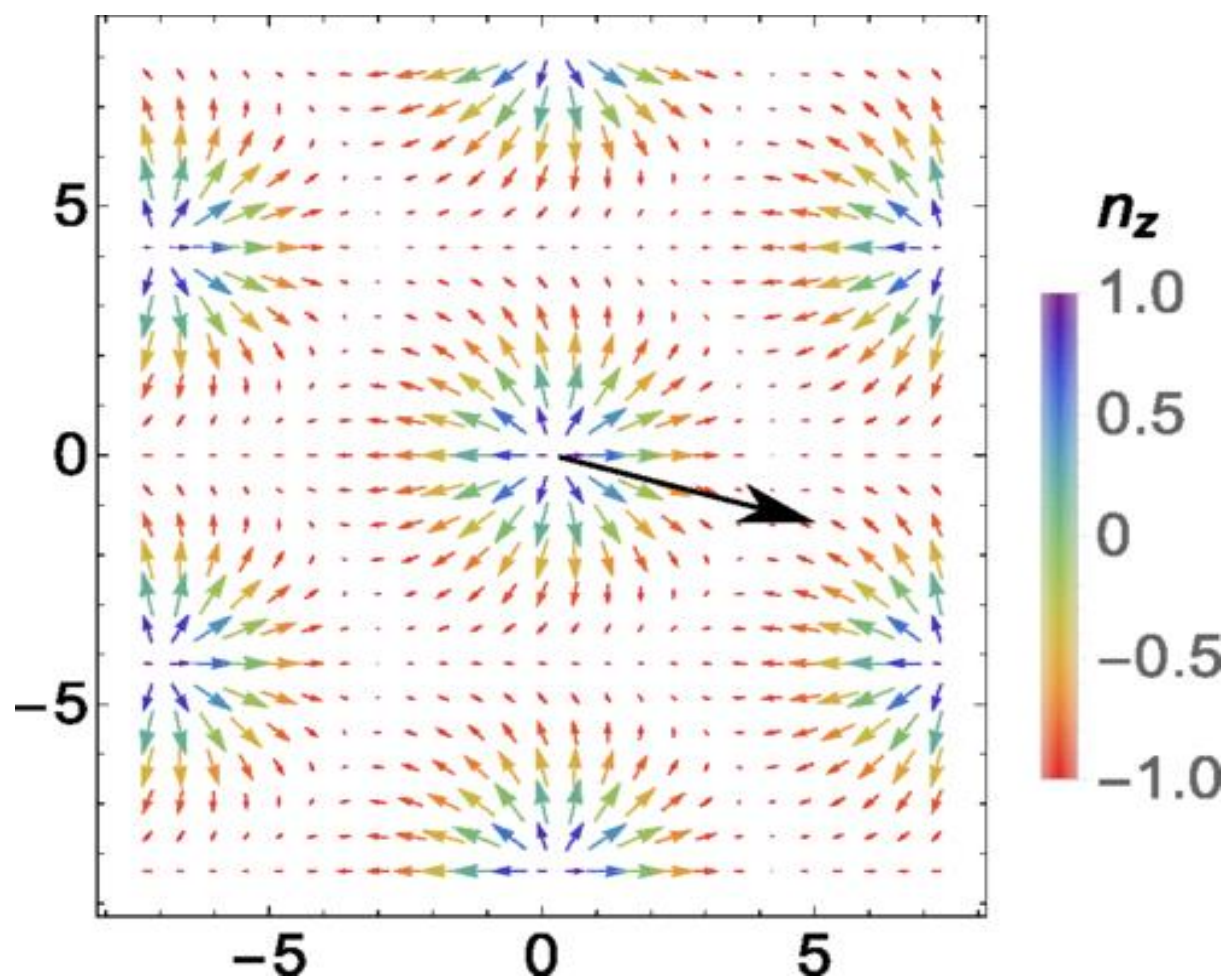
(b)



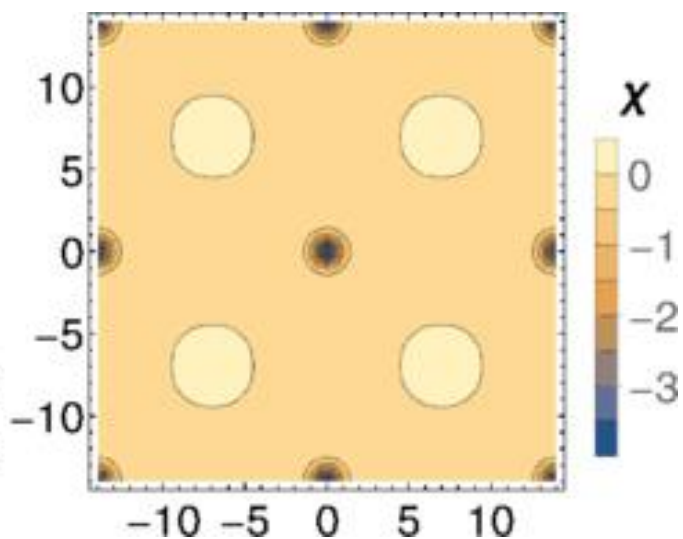
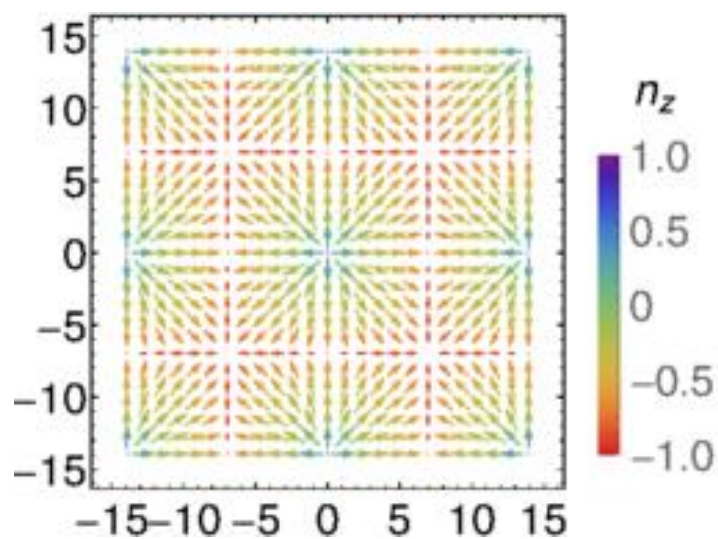
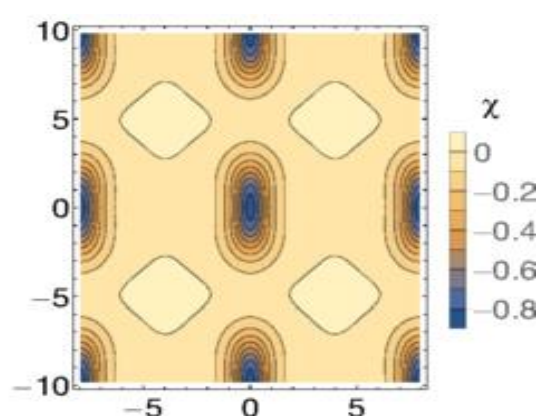
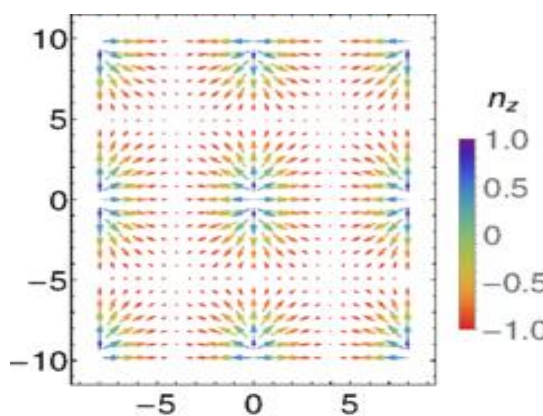
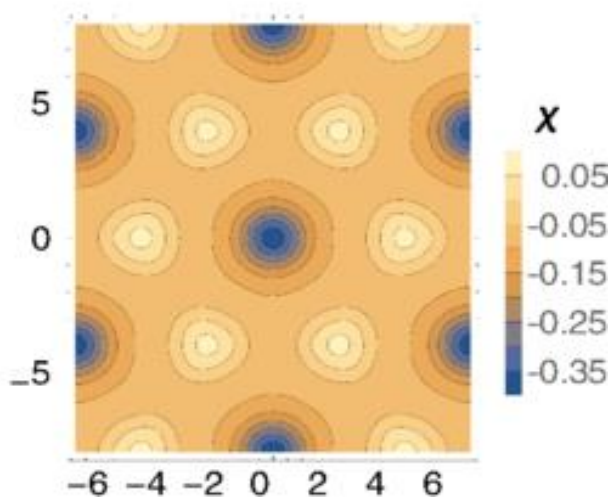
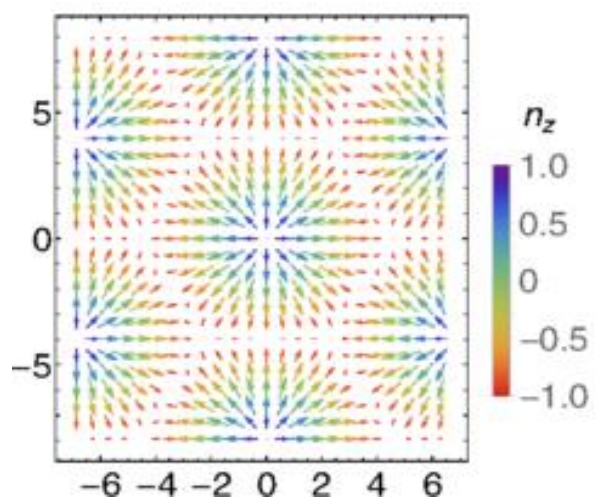
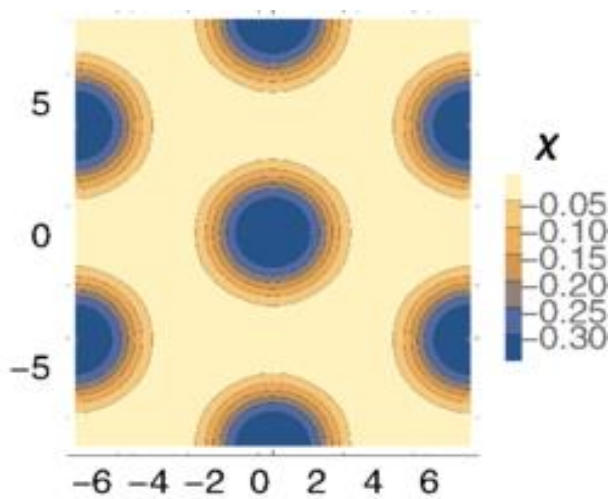
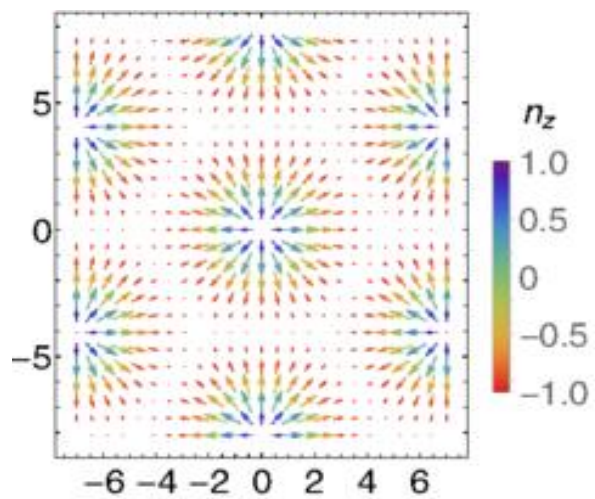
(c)

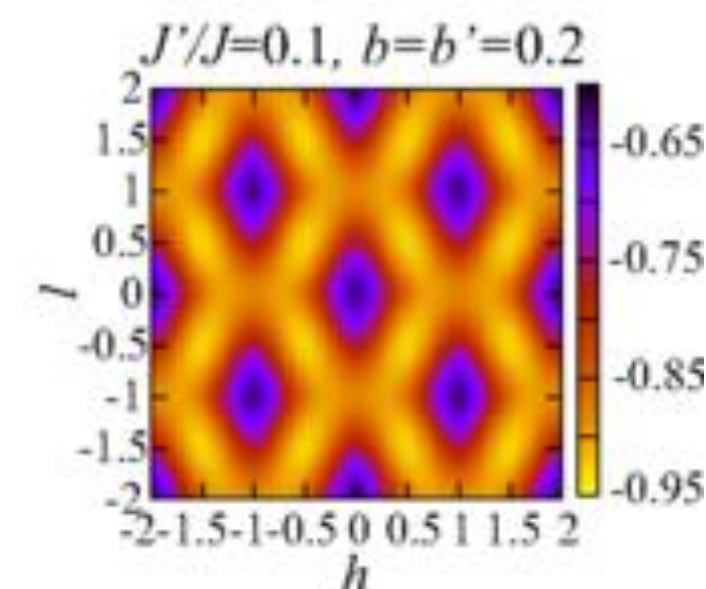
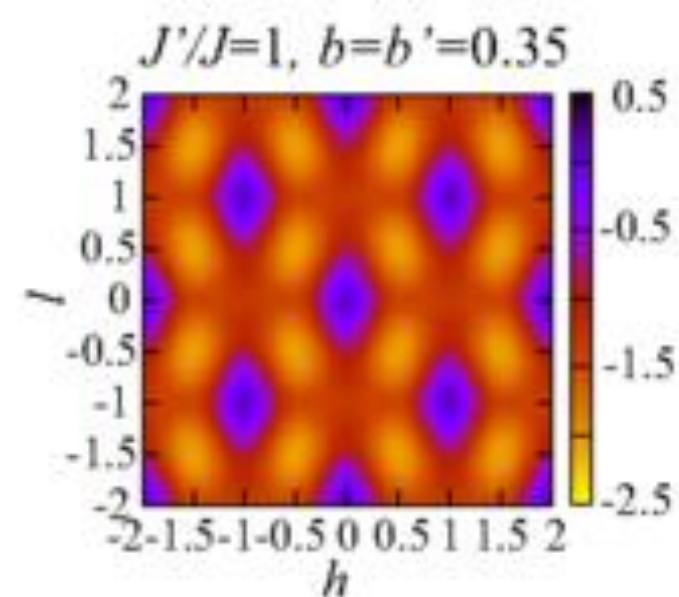
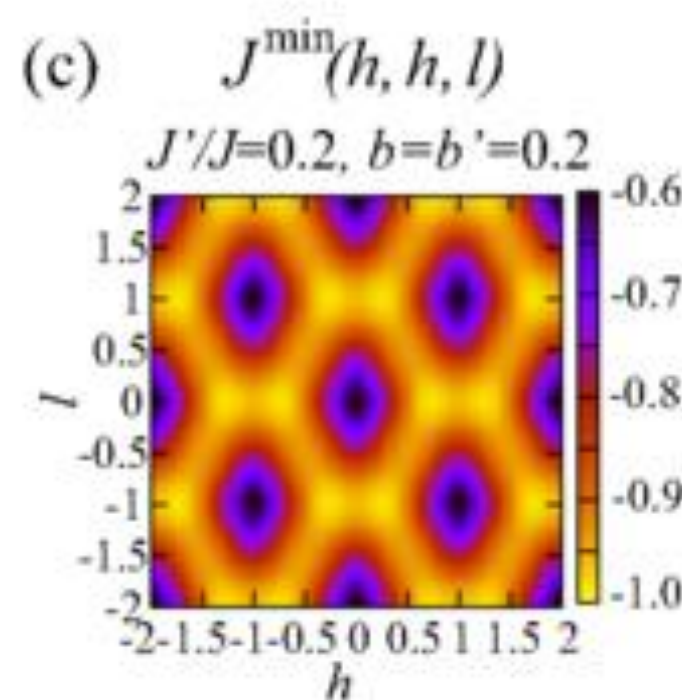
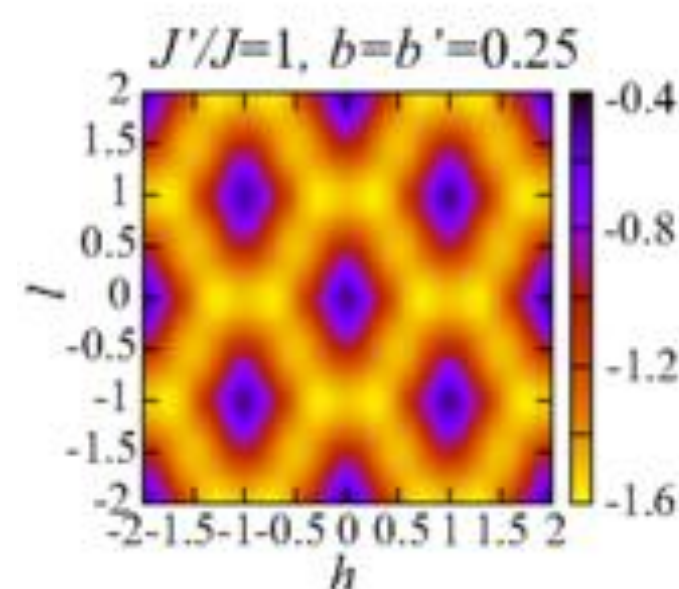
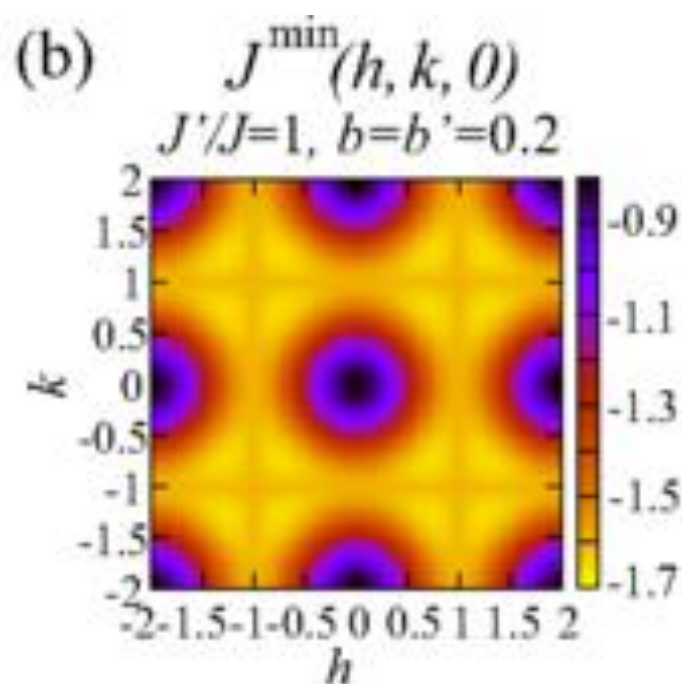
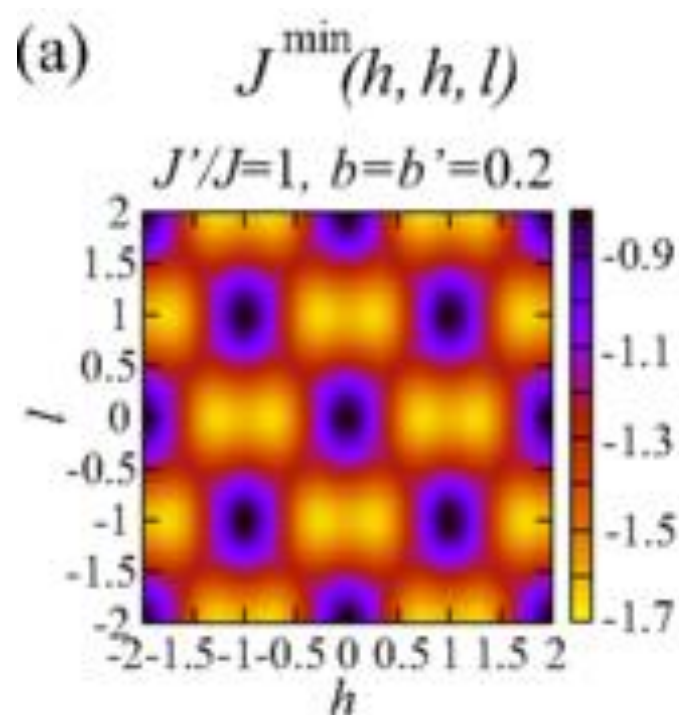




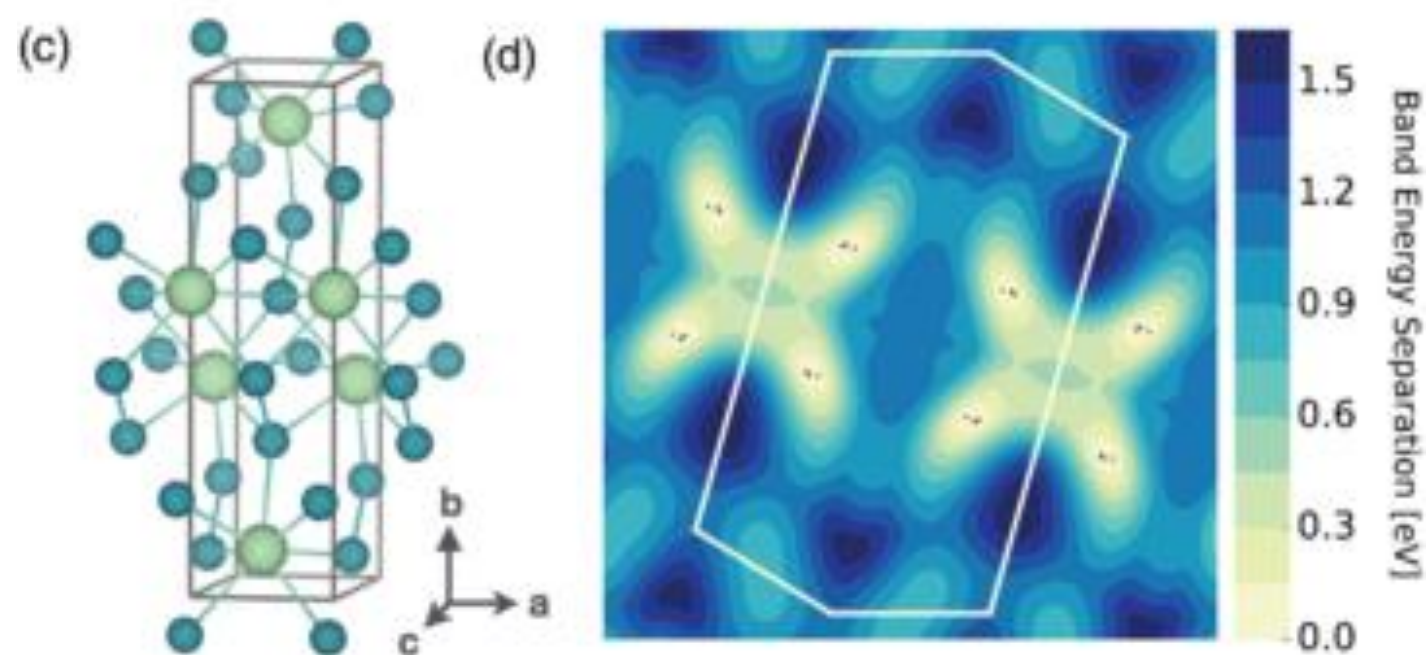
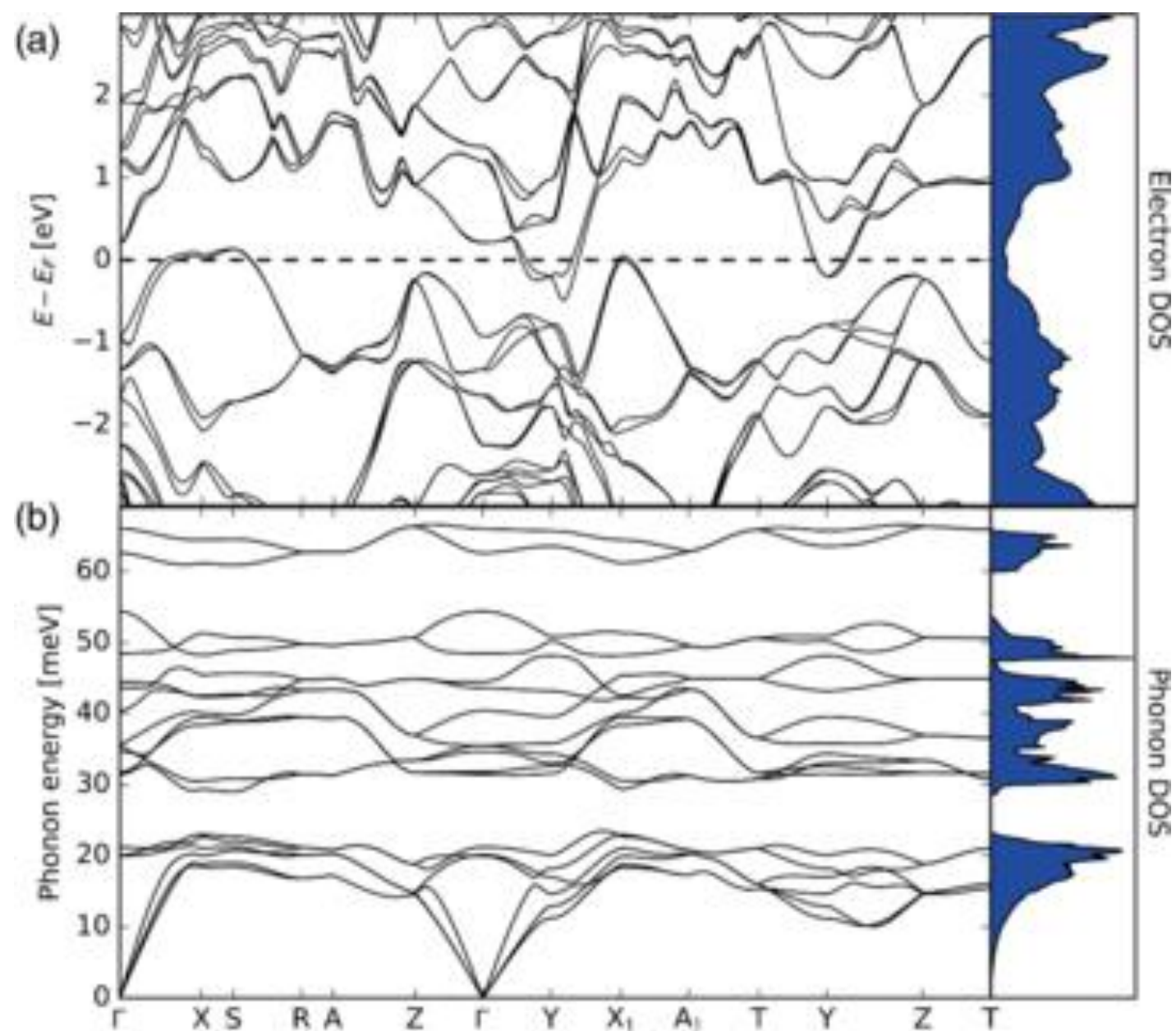




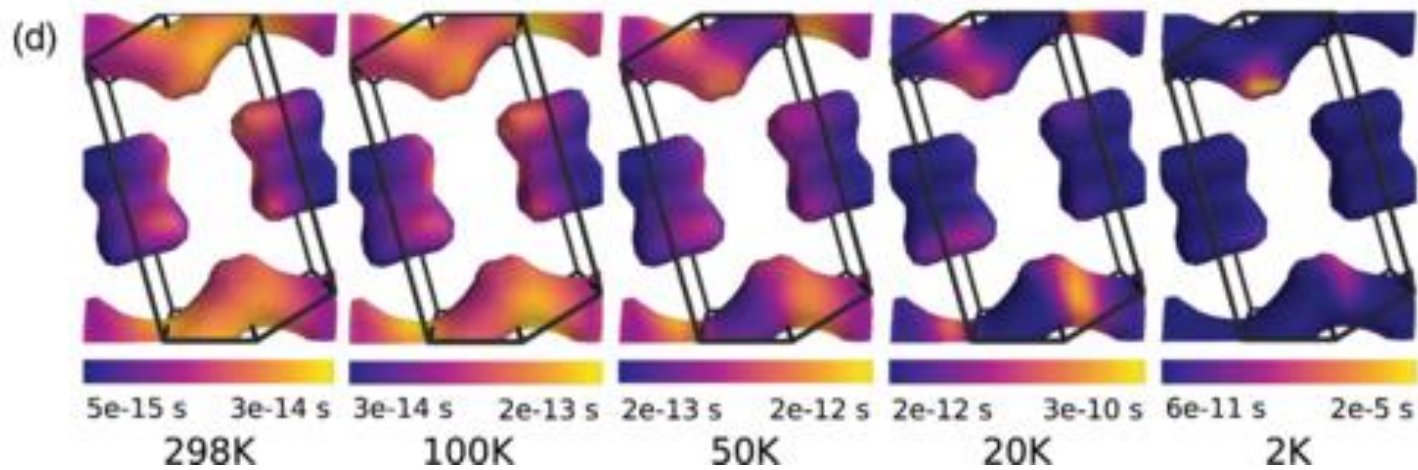
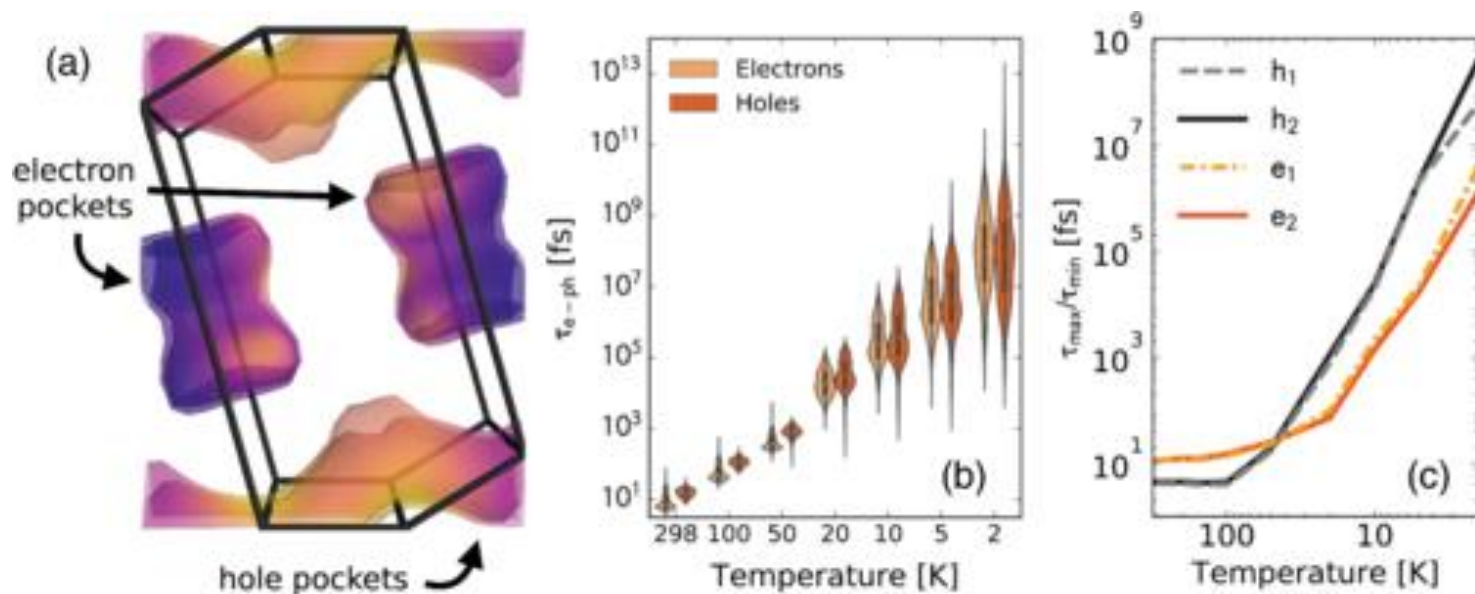
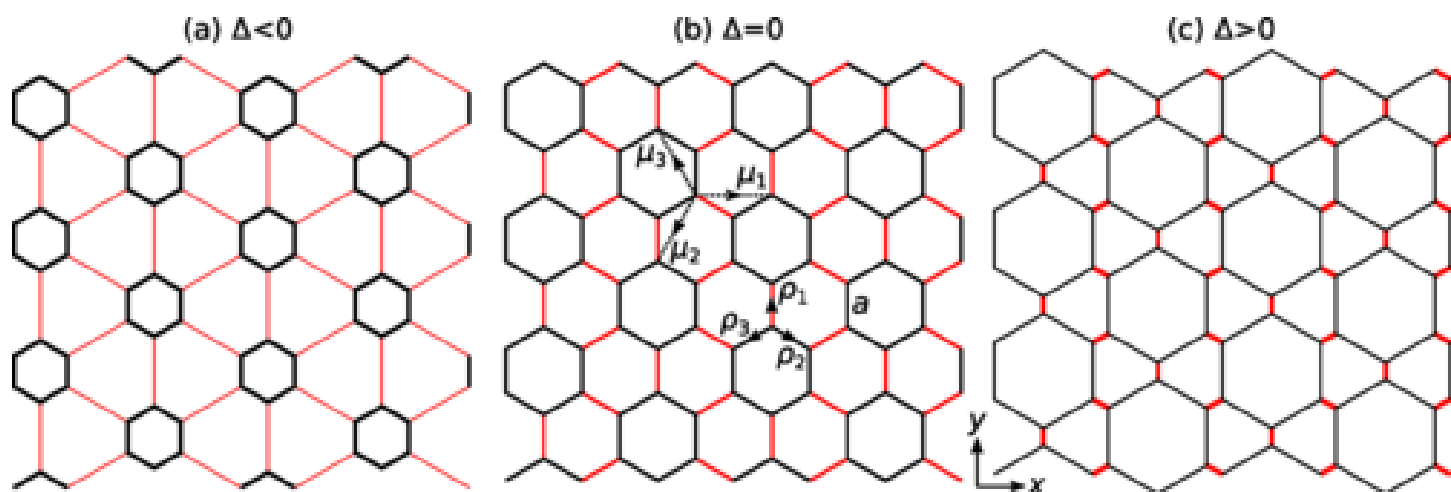


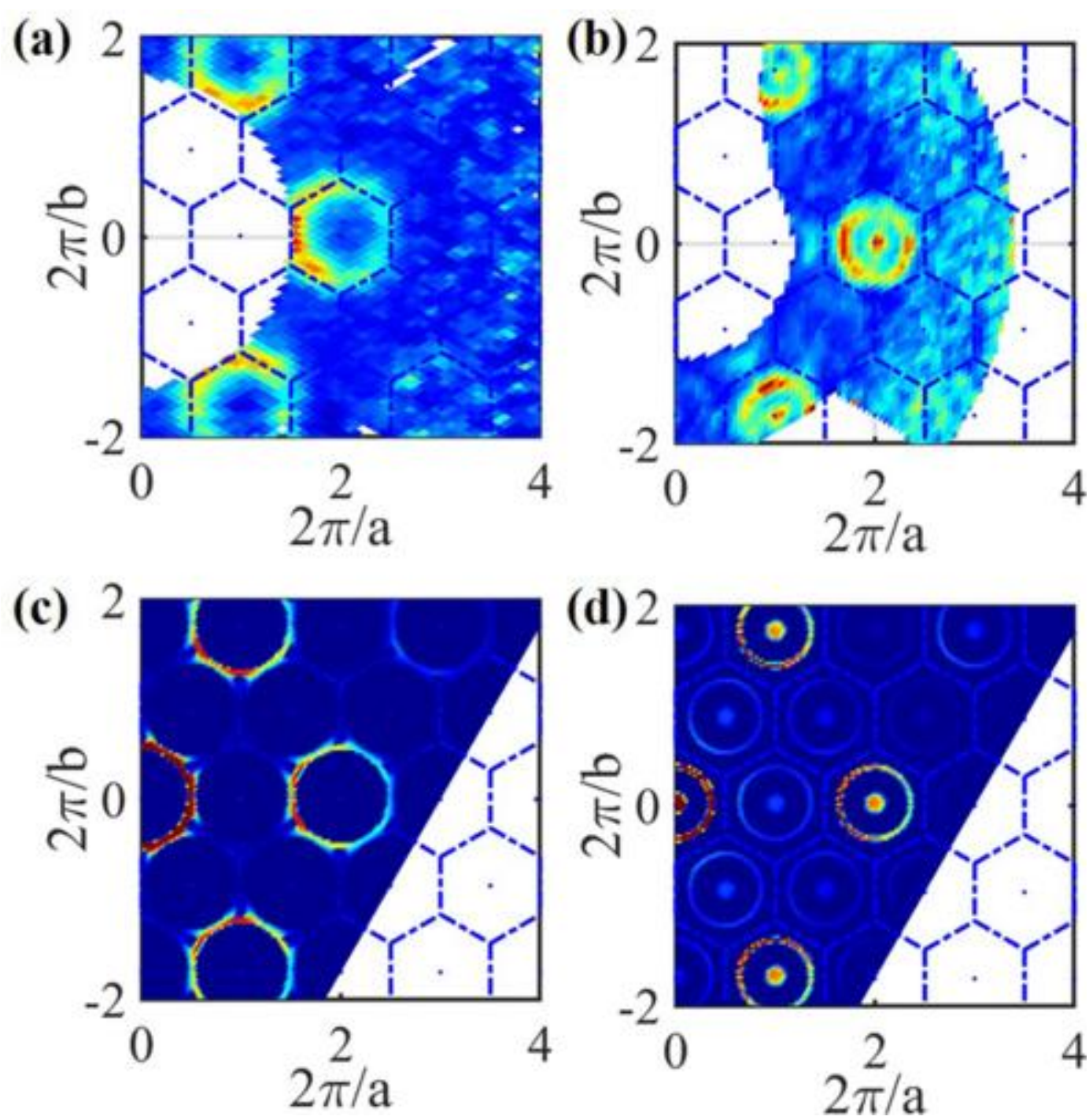
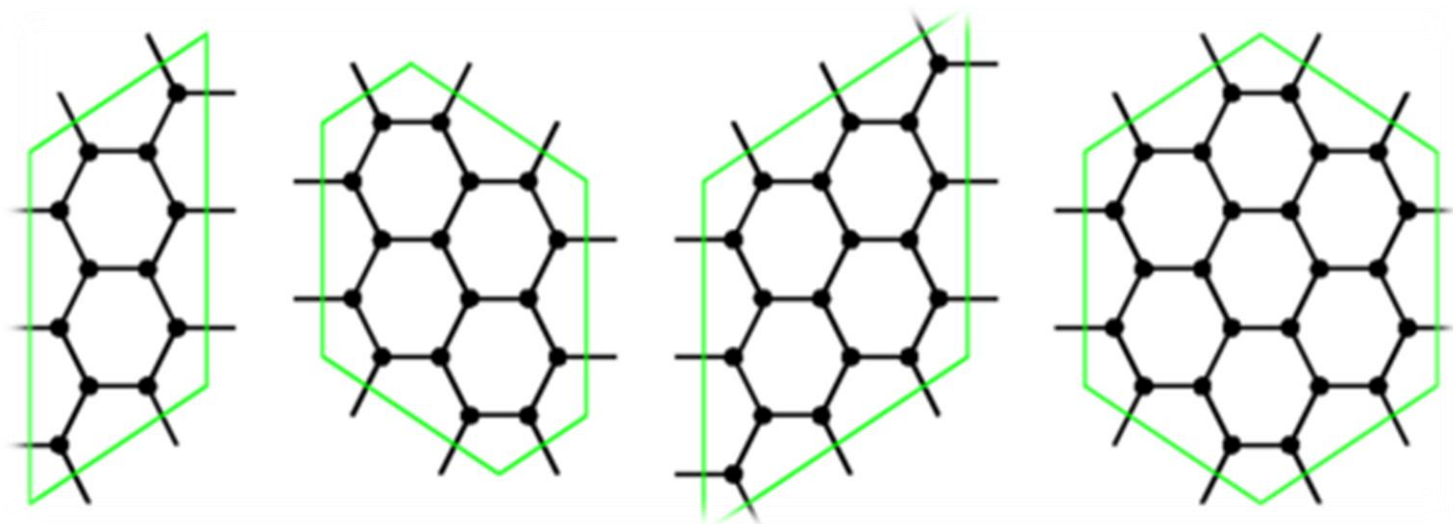




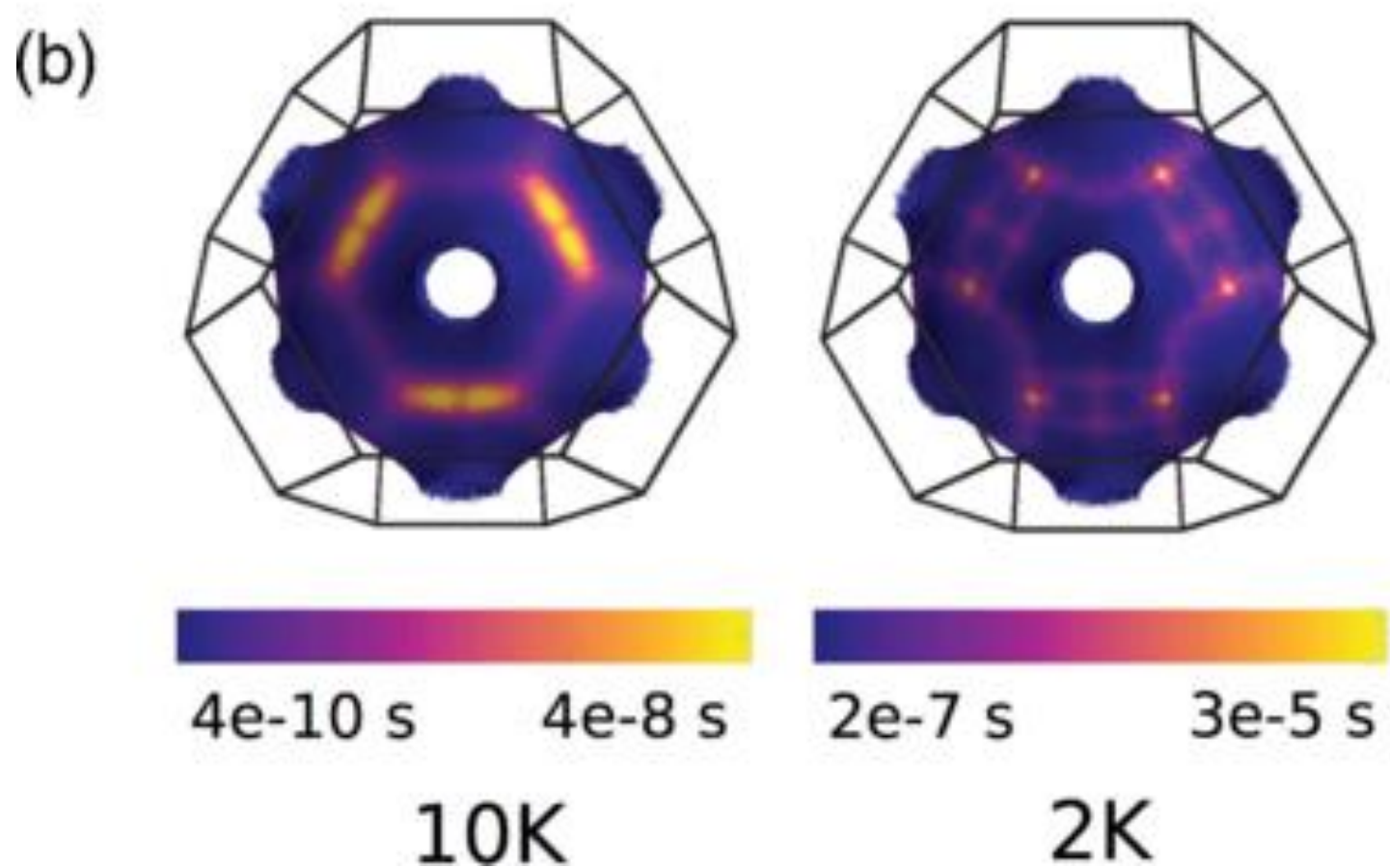
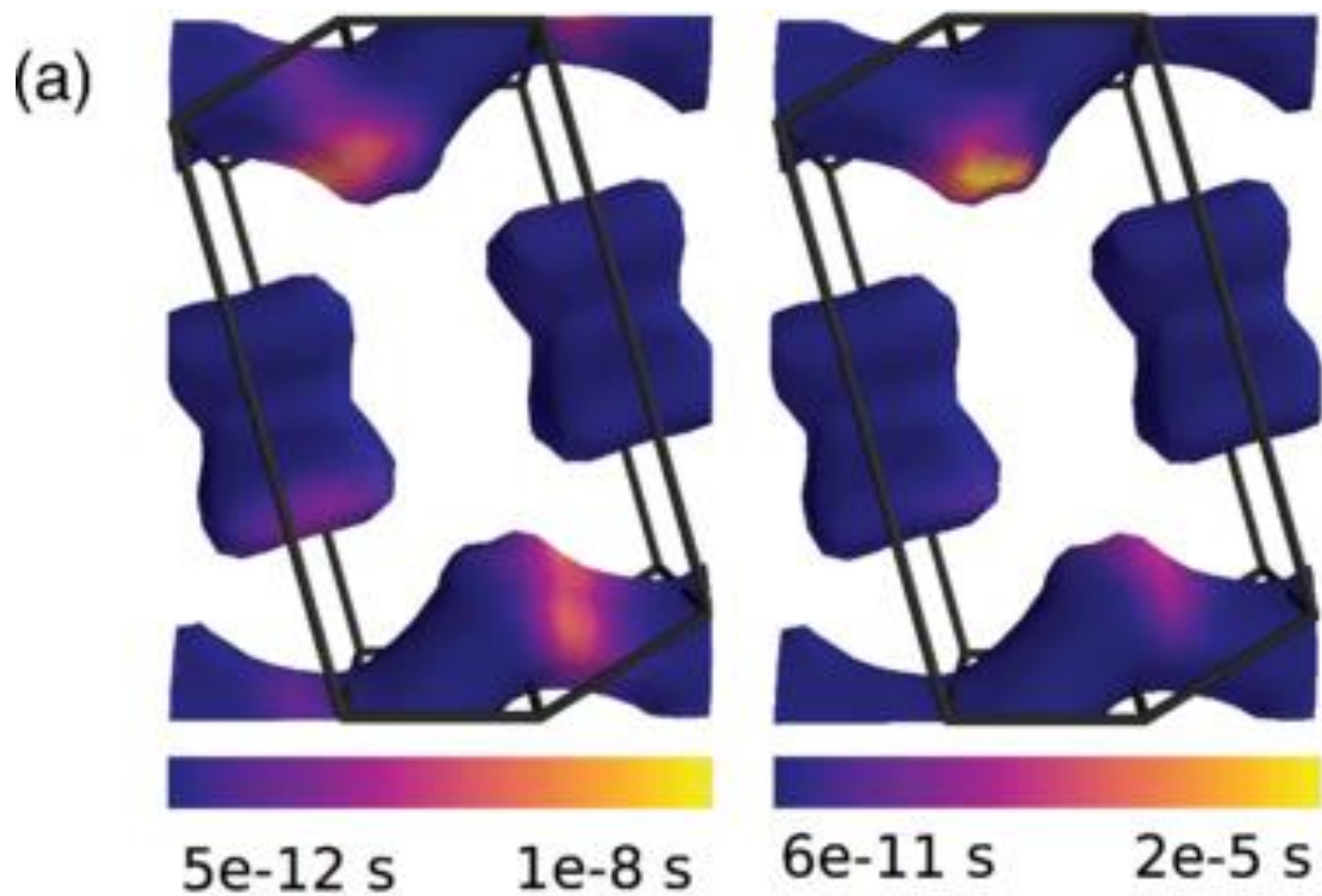




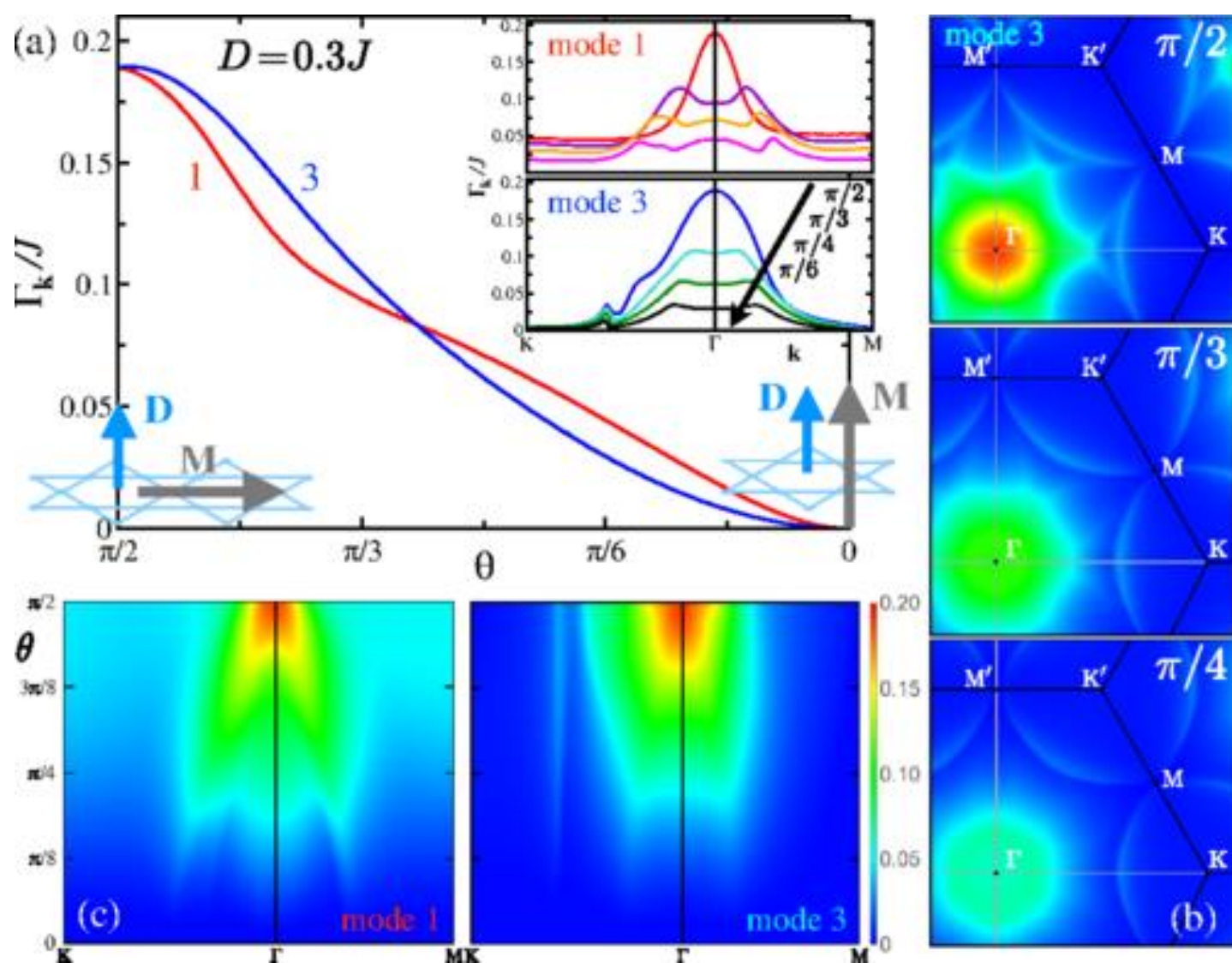
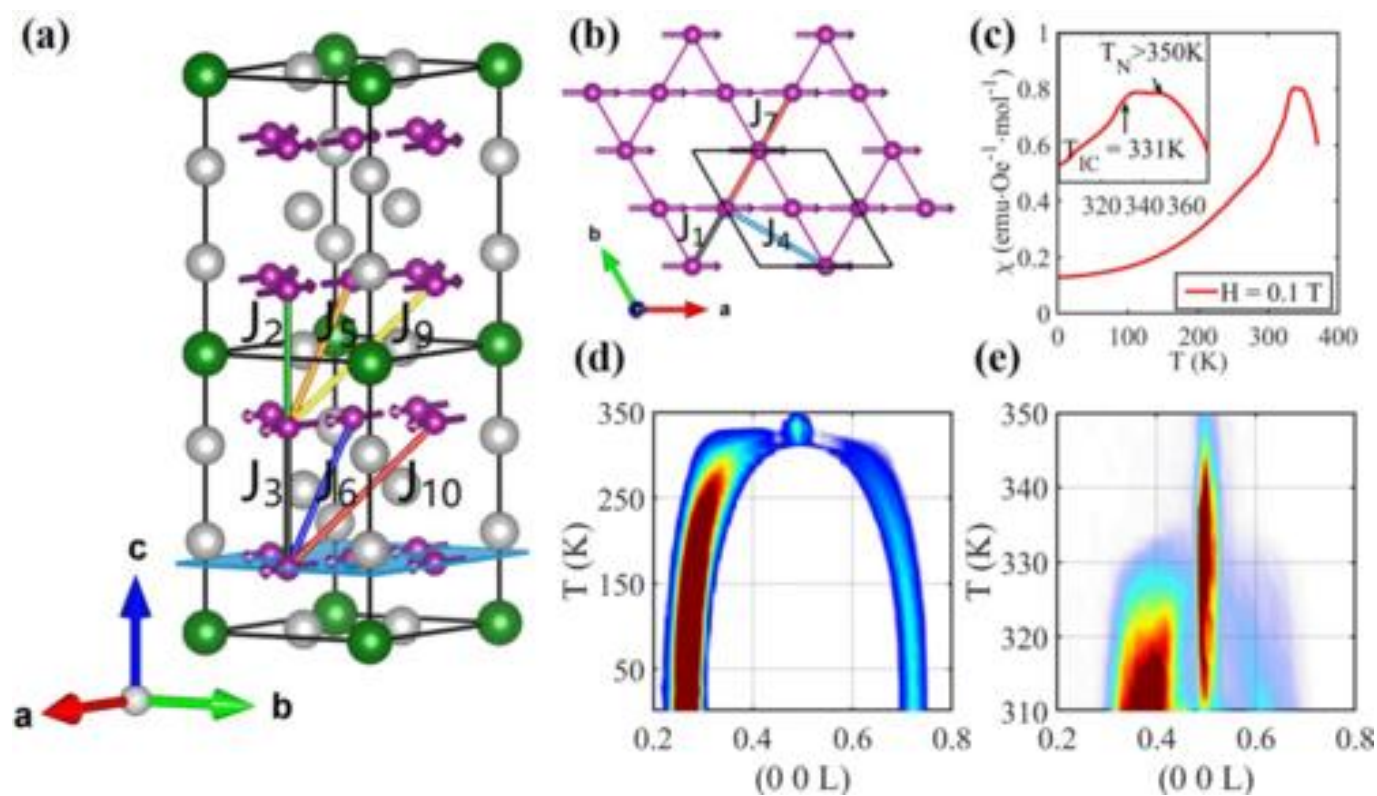


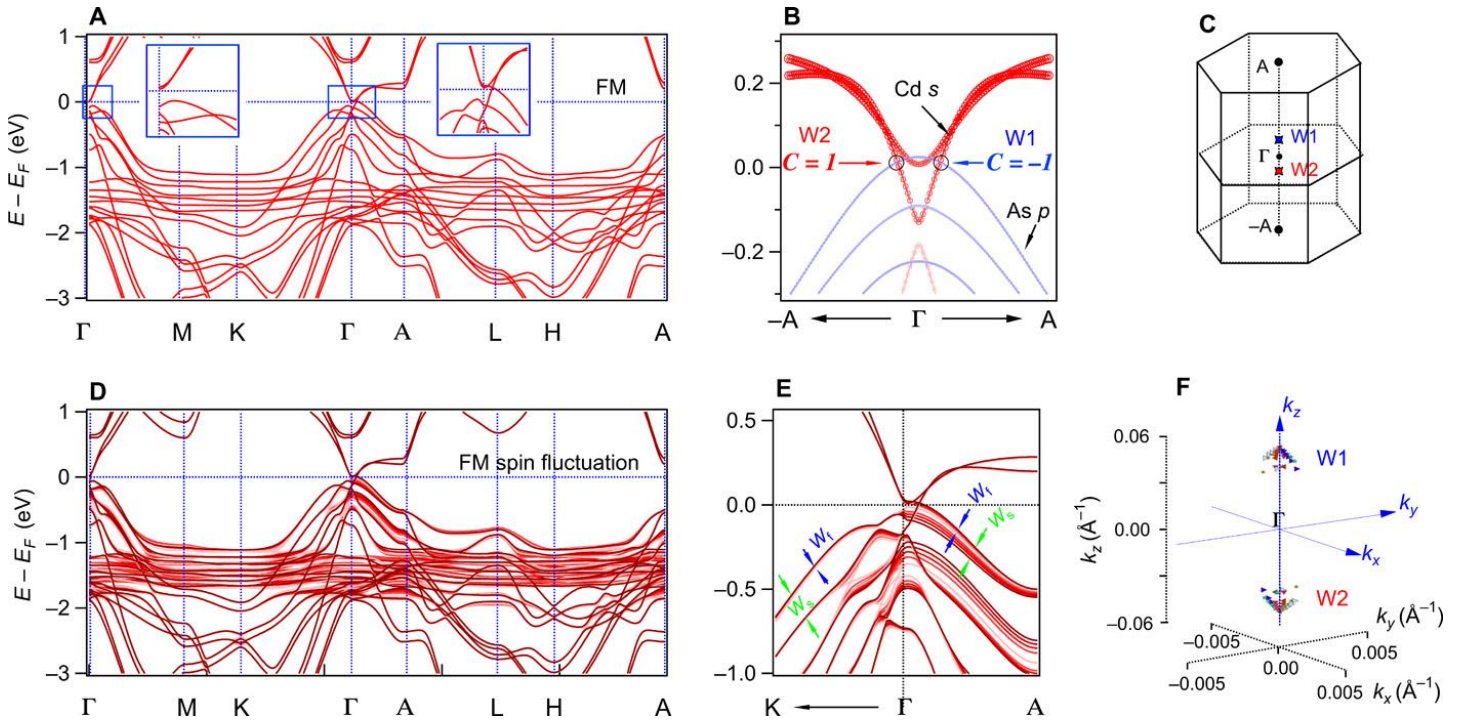
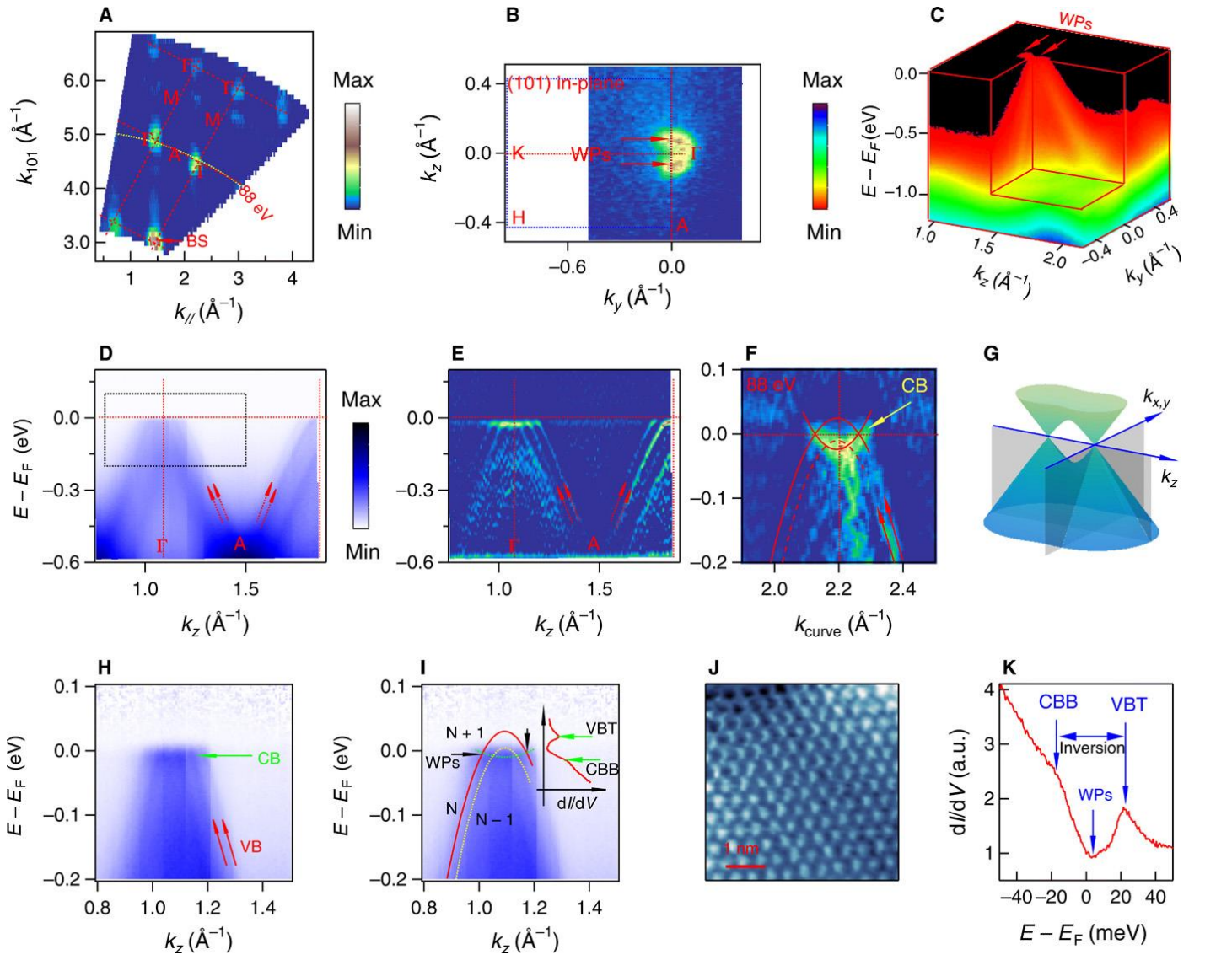




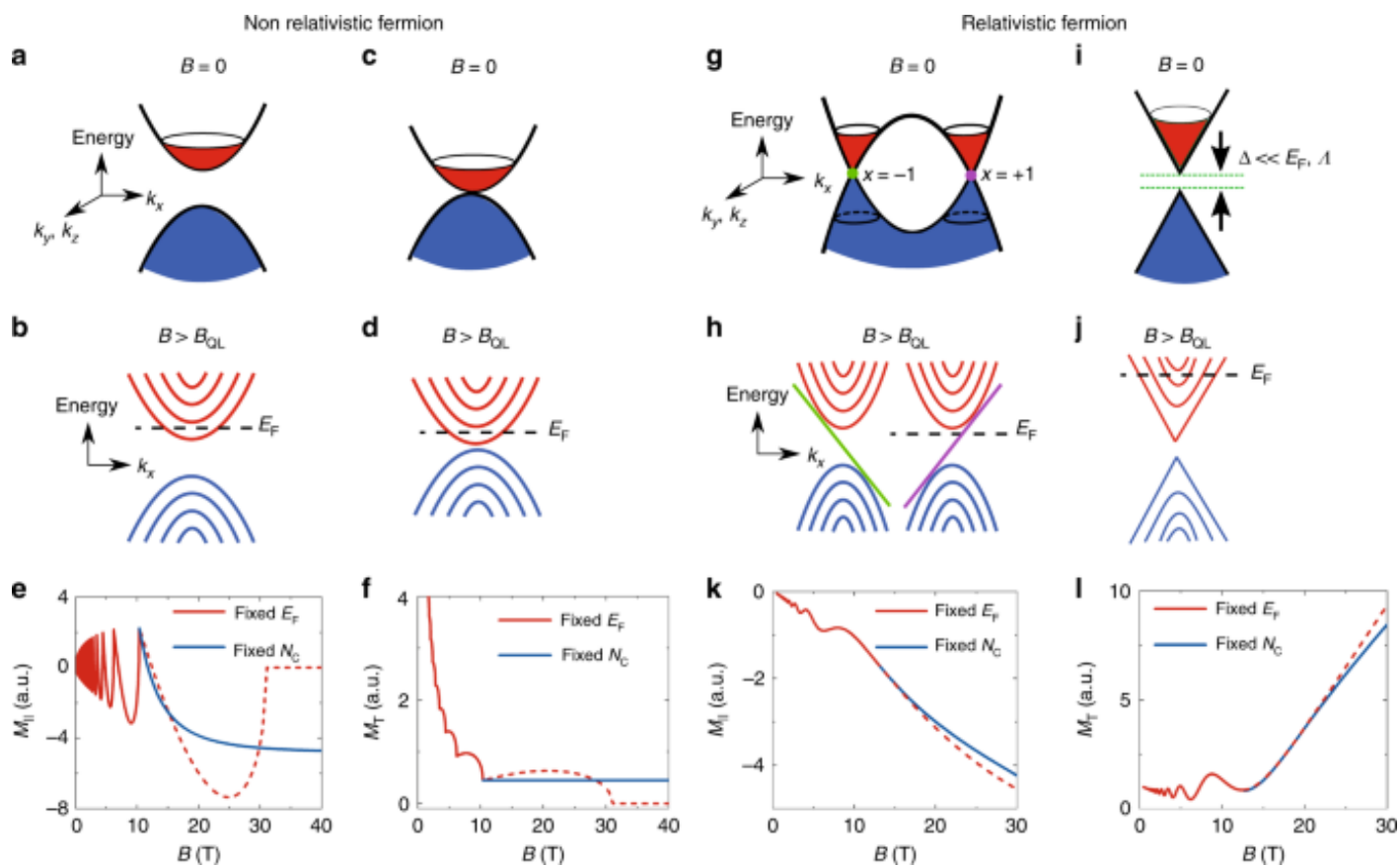
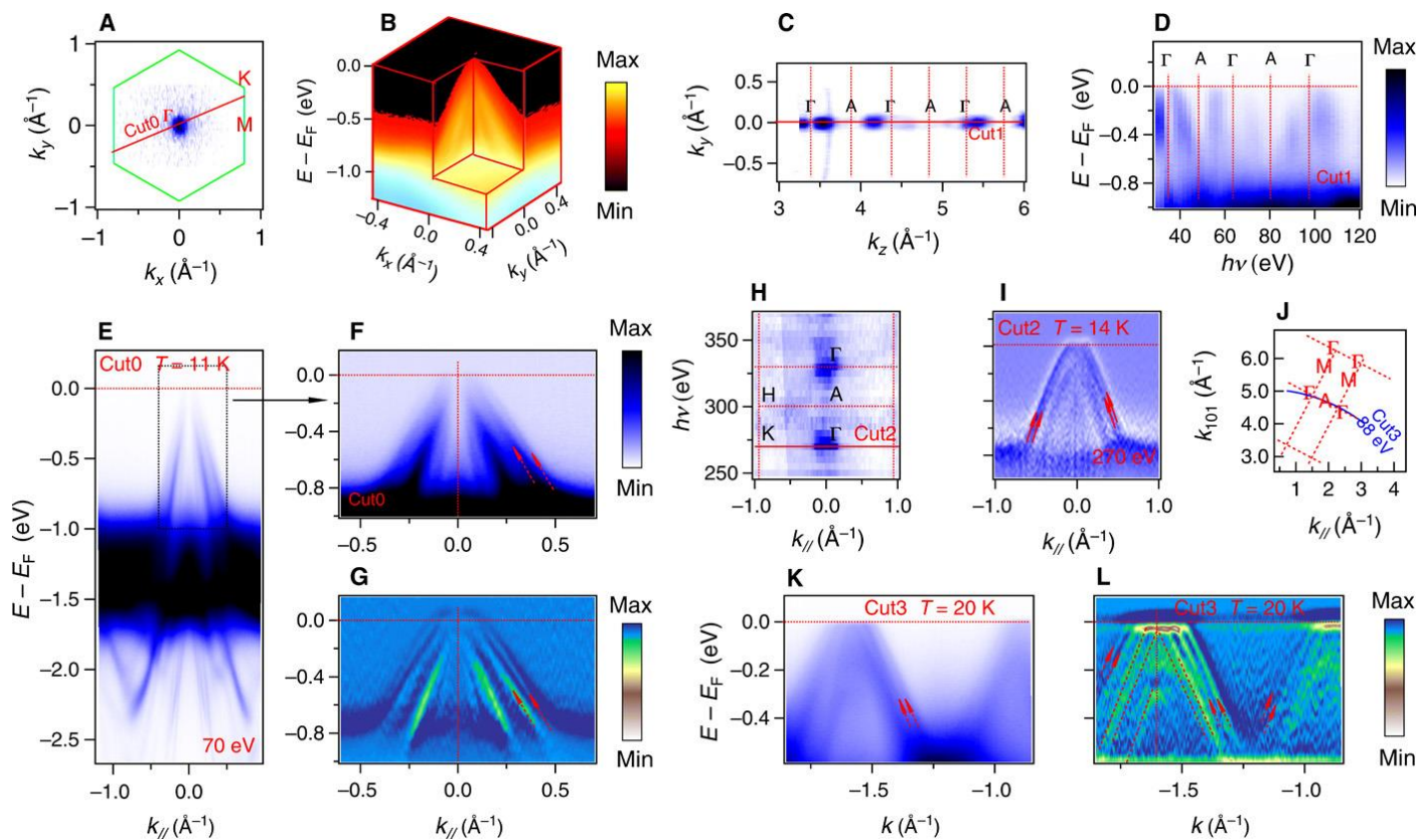




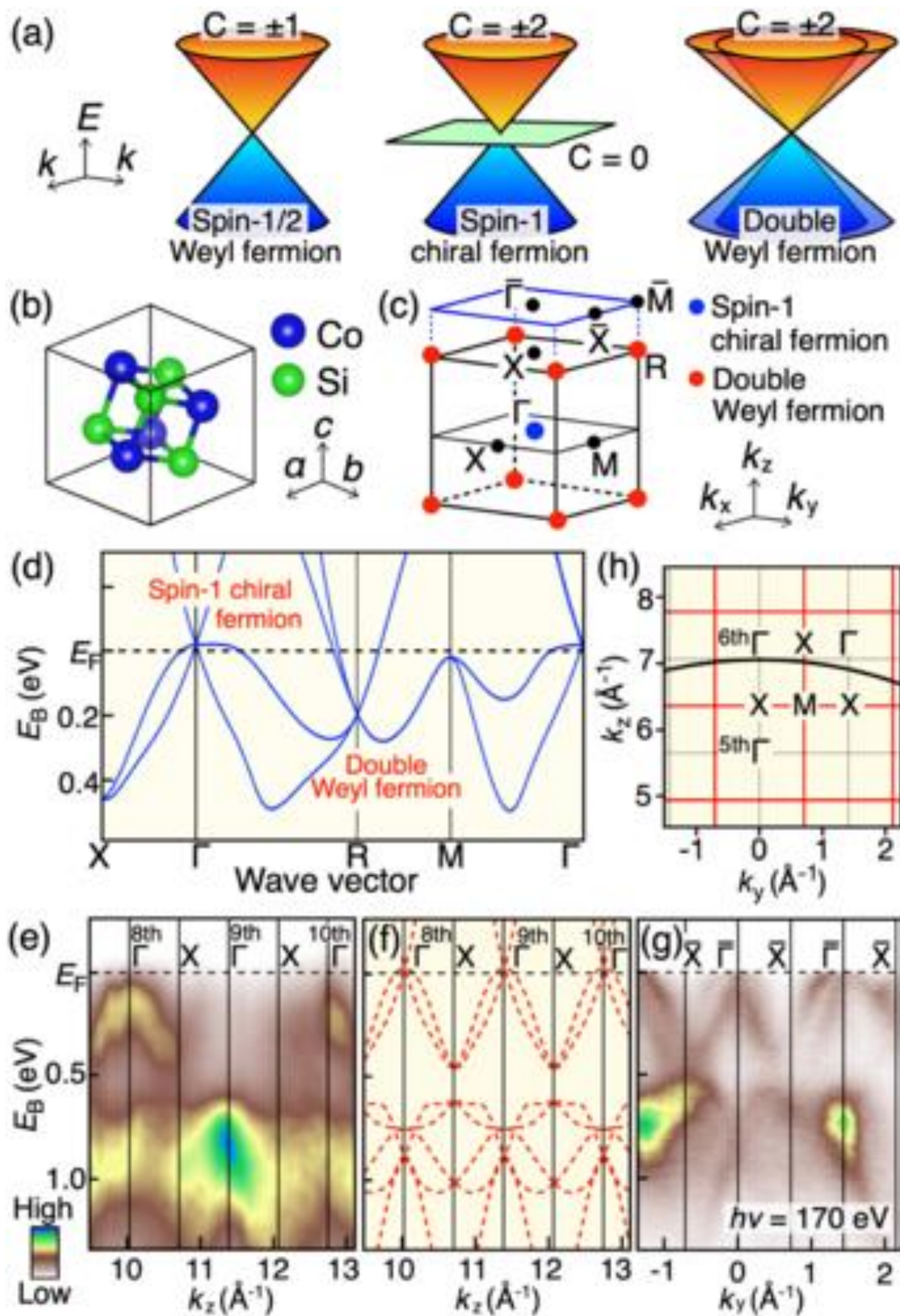


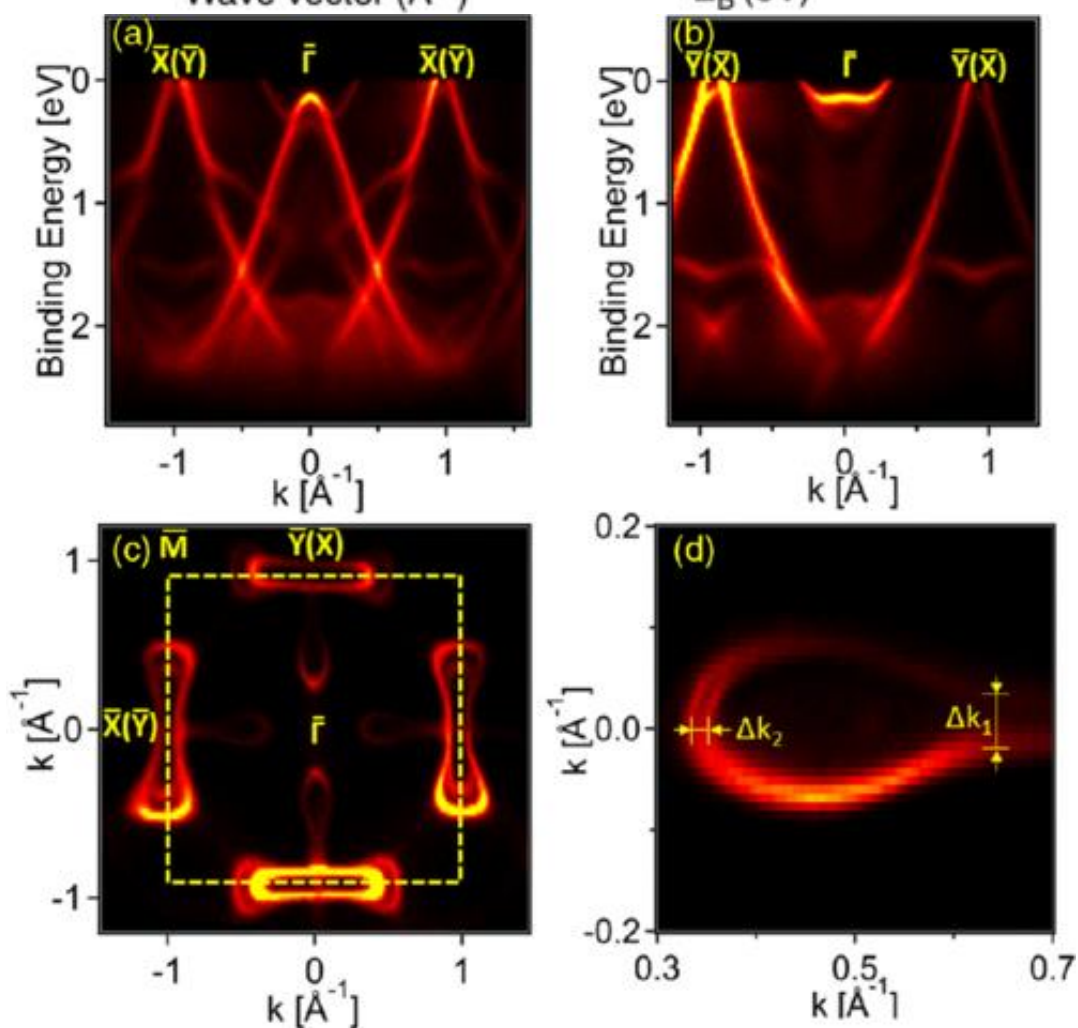
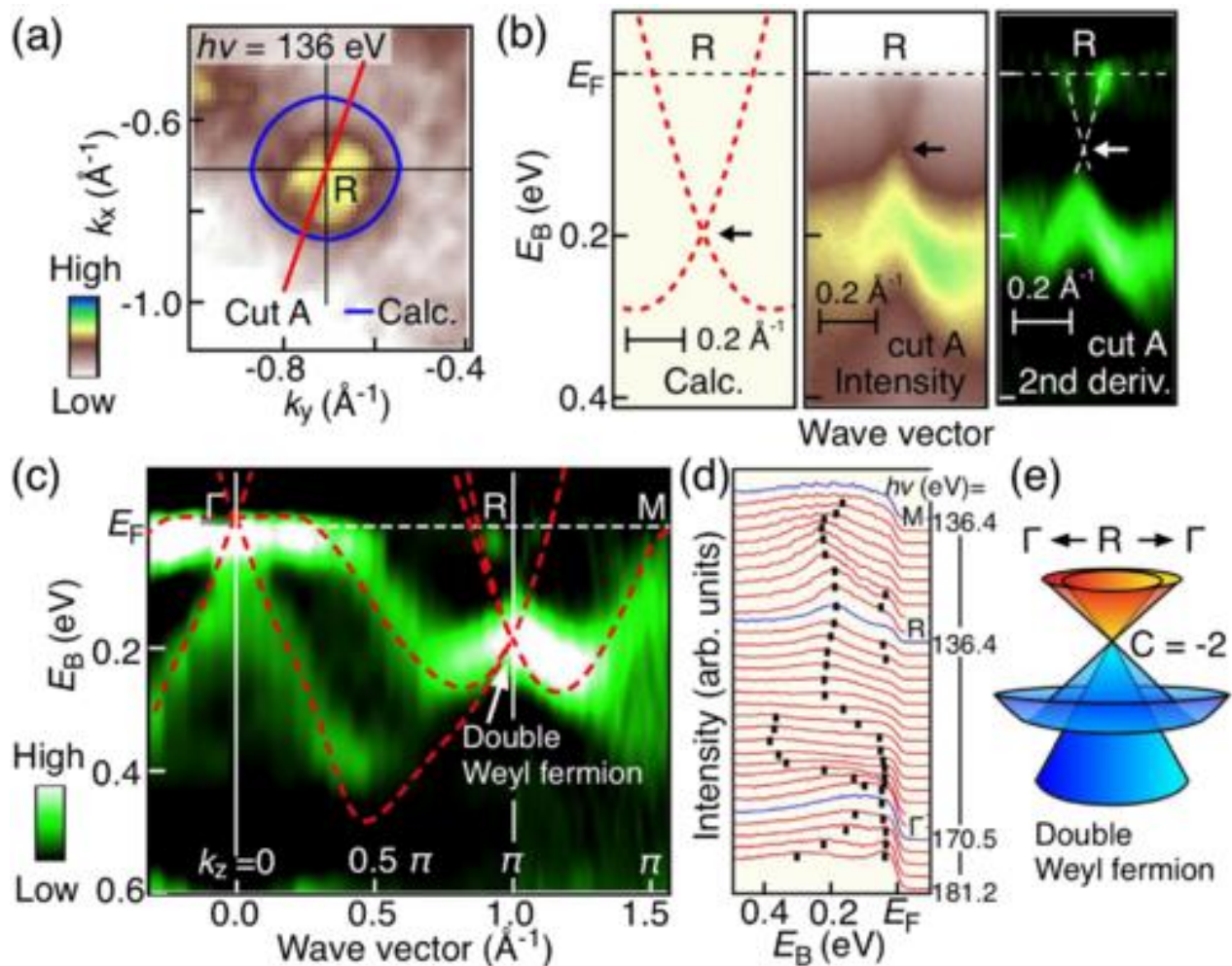




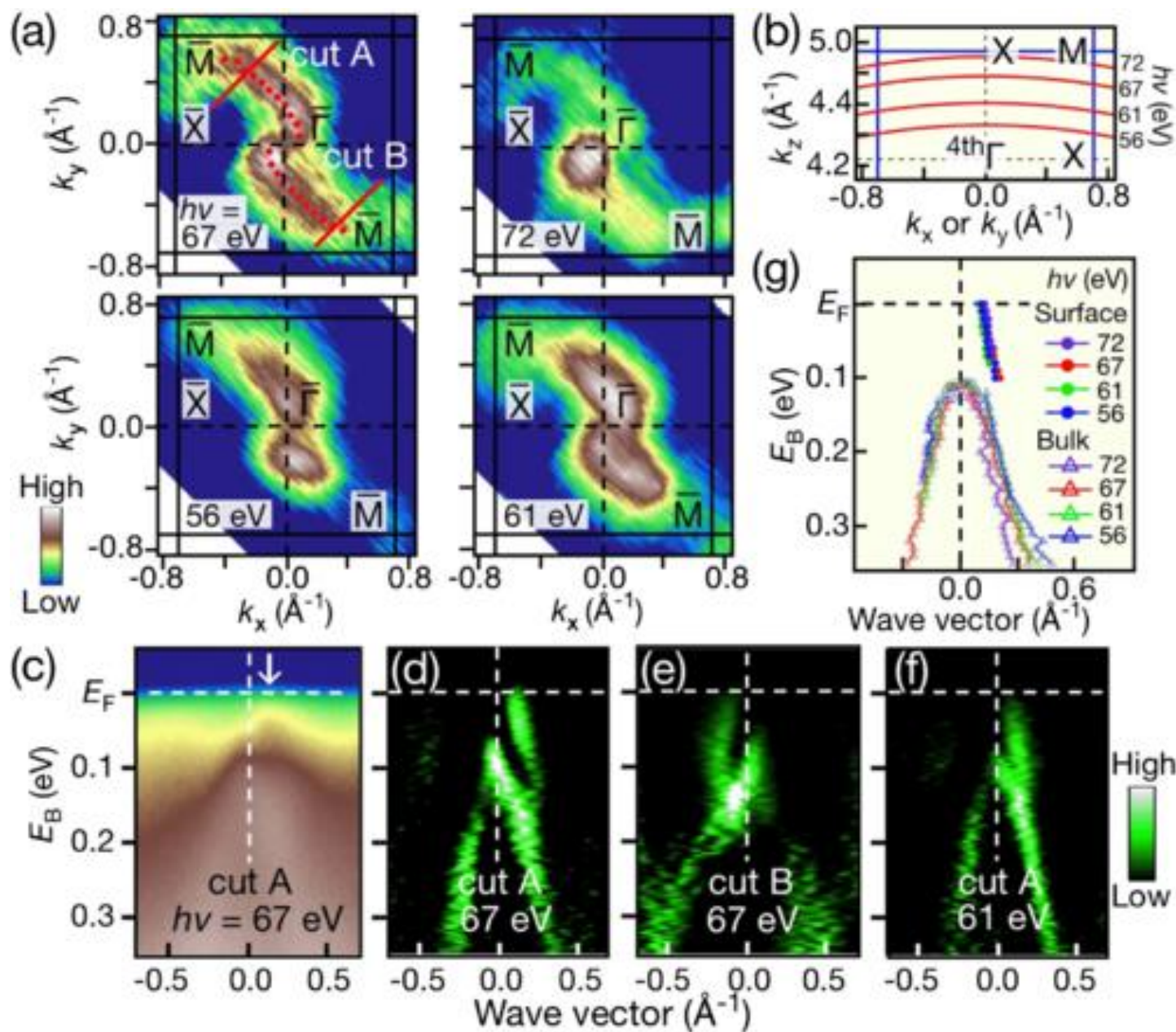
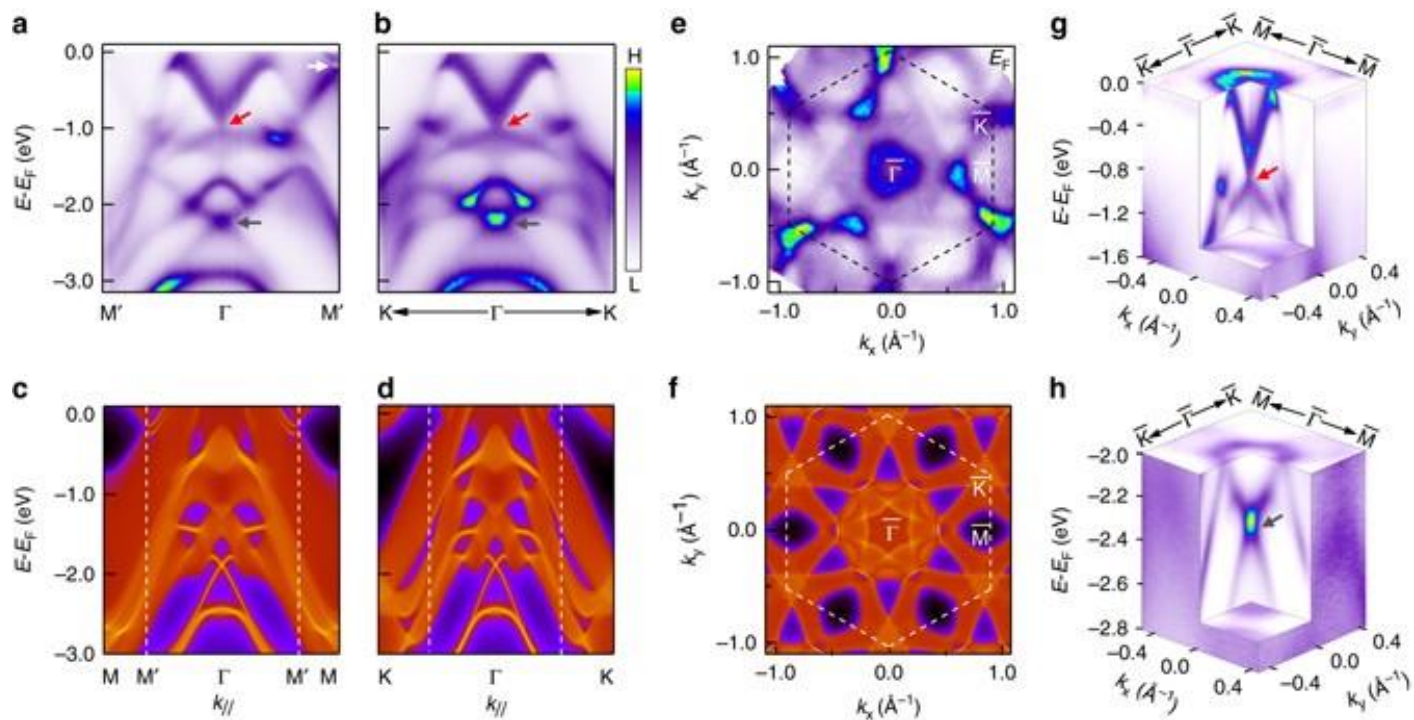




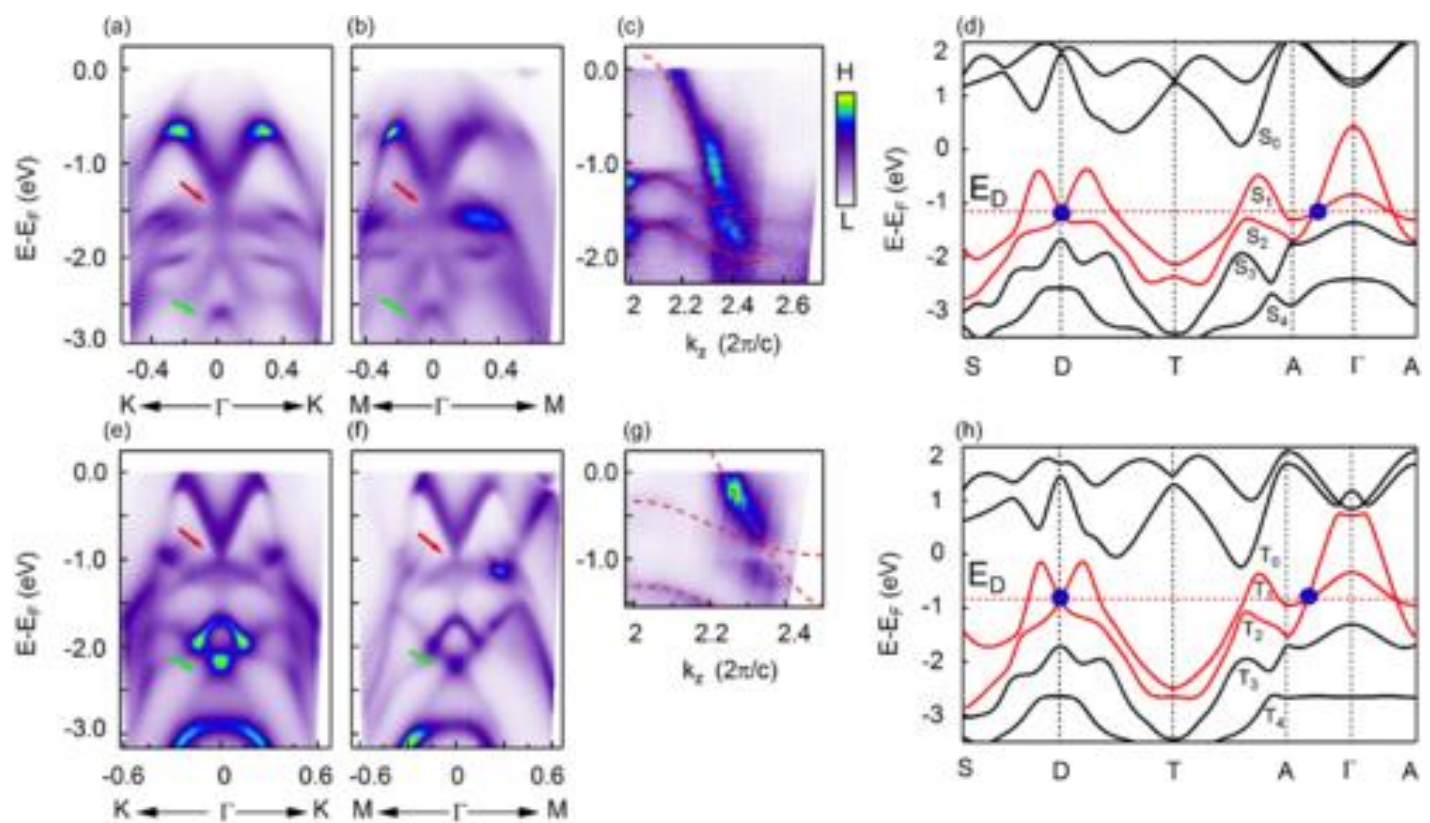
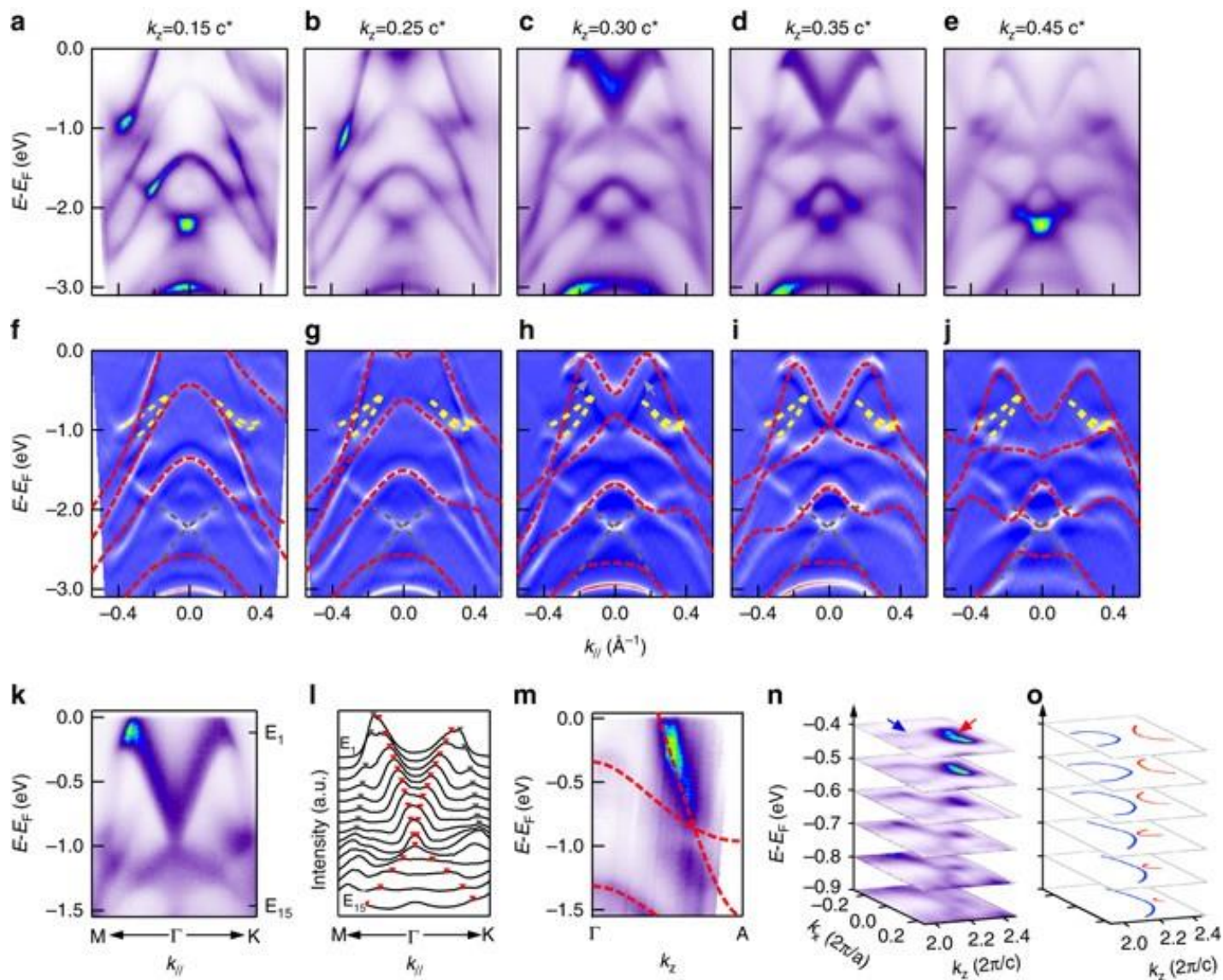




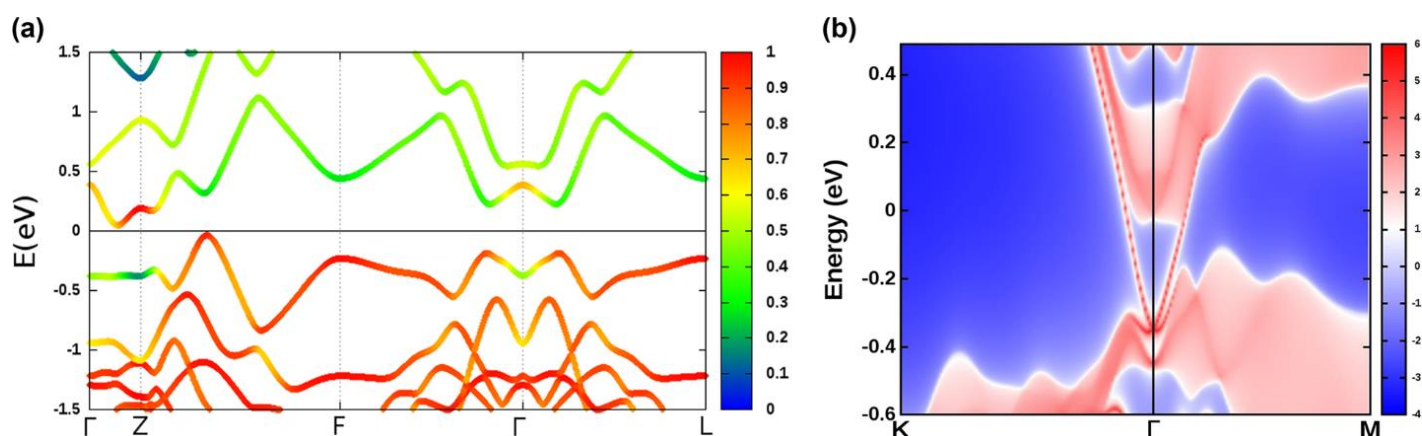
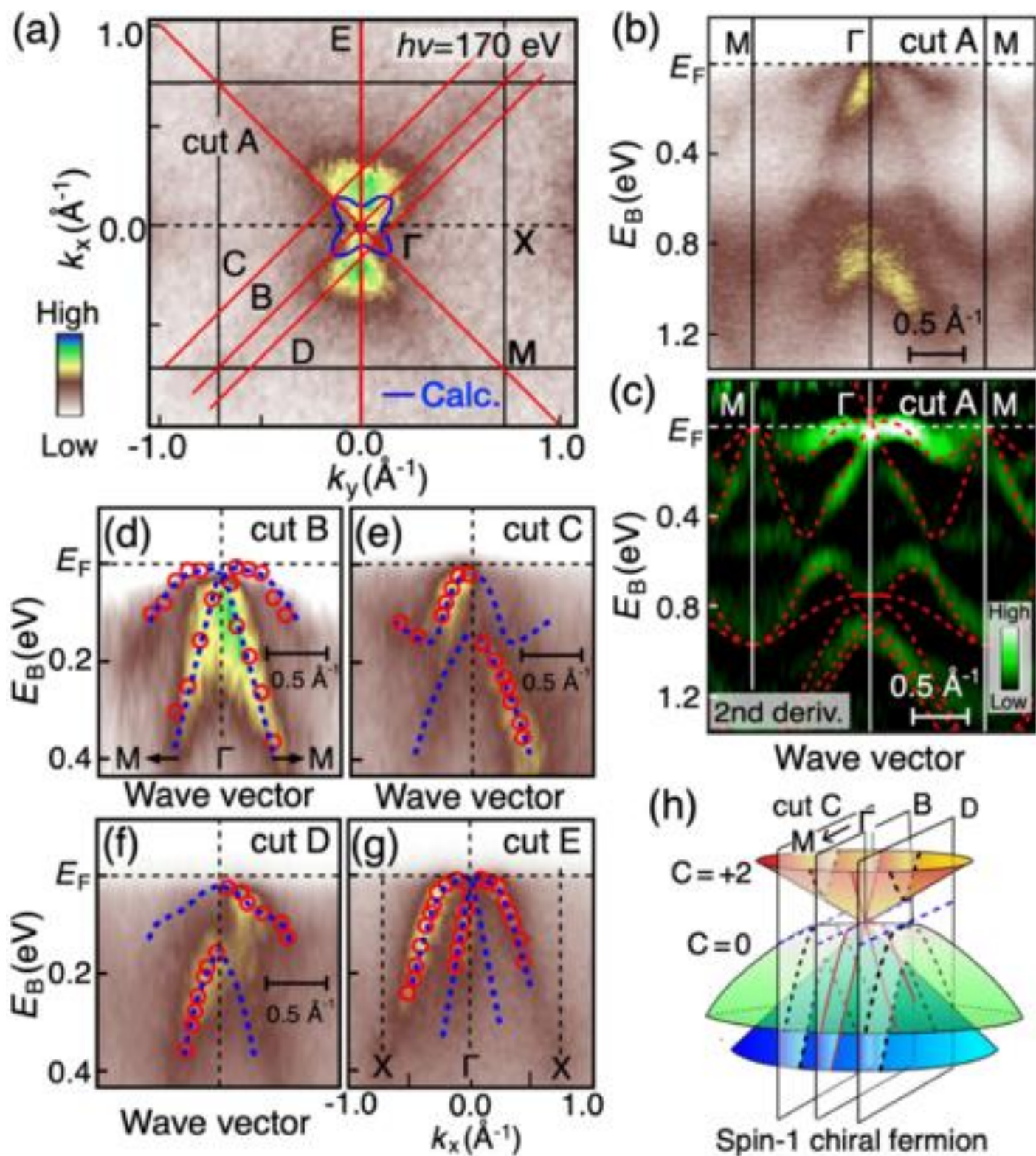




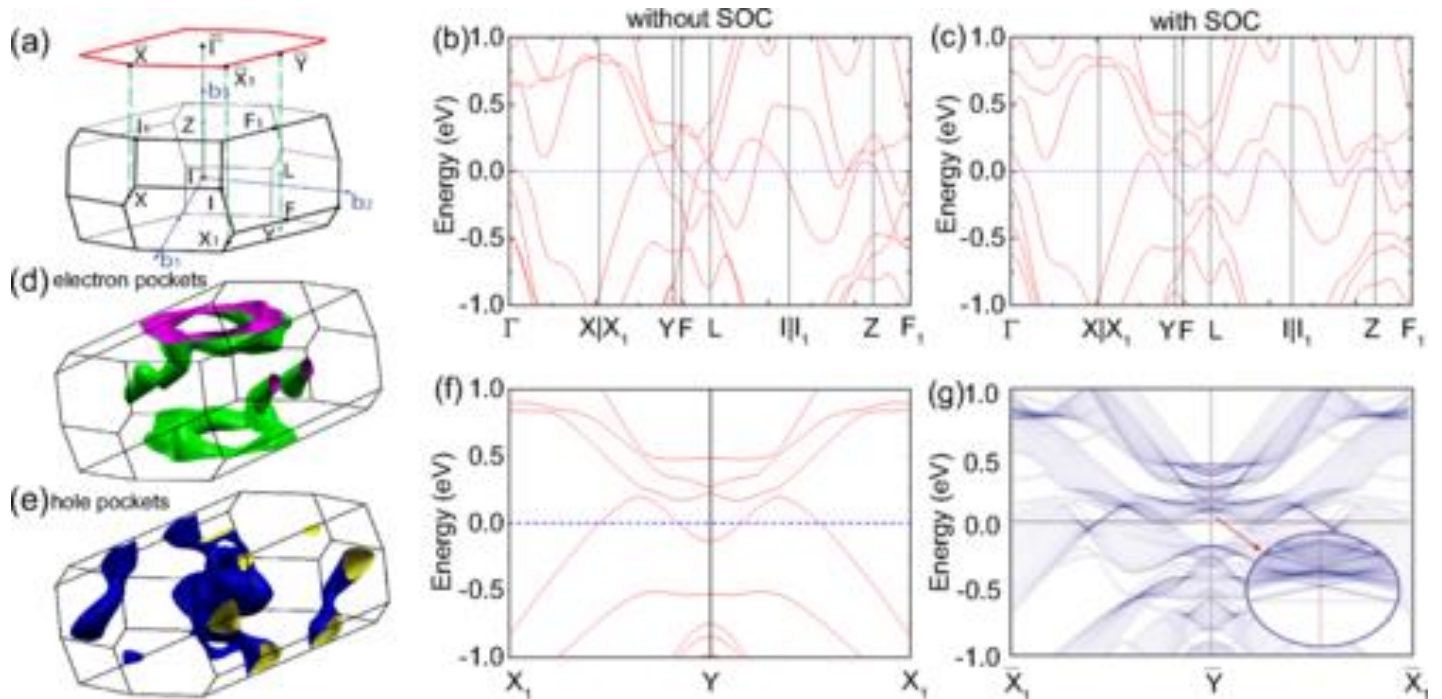
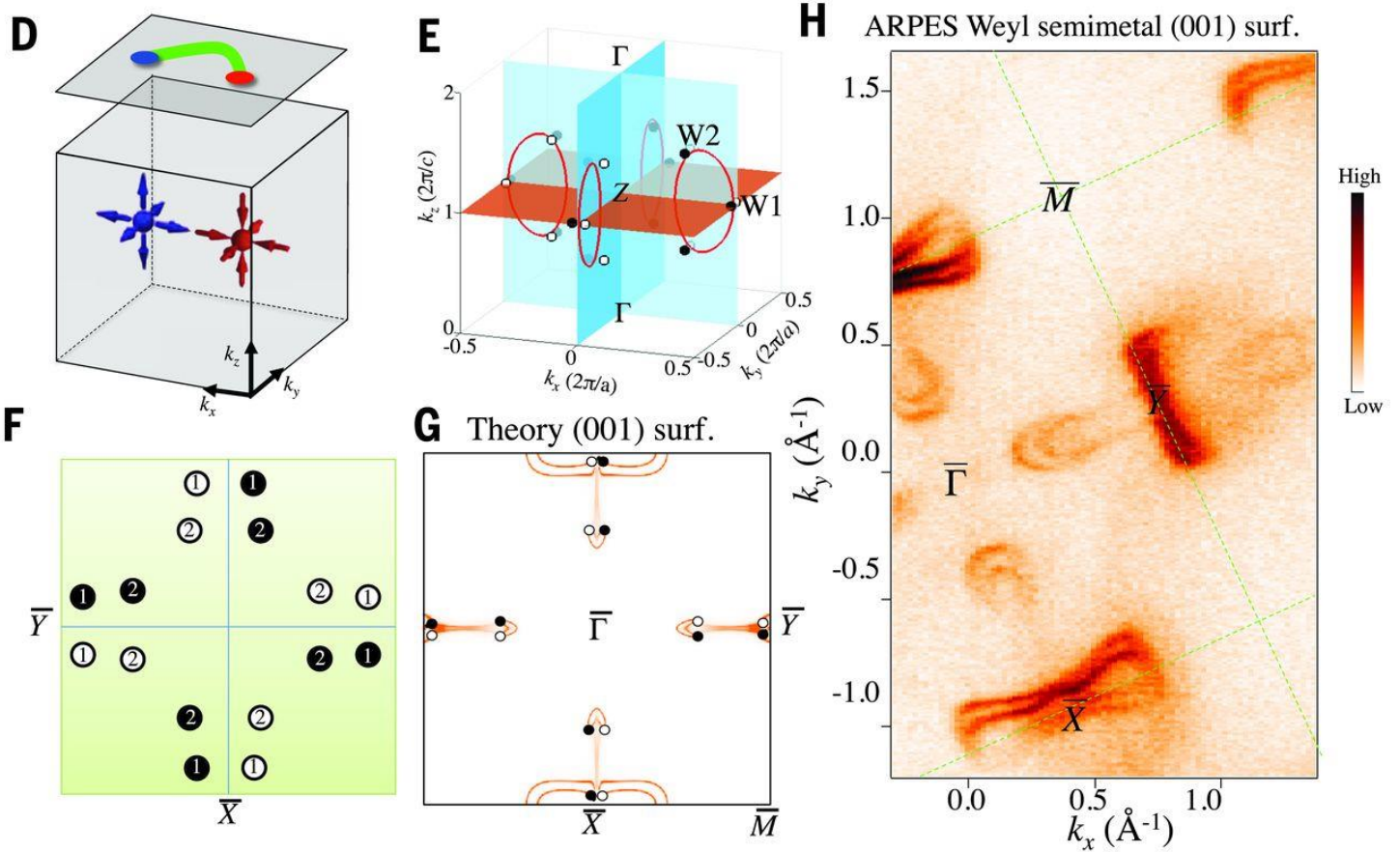
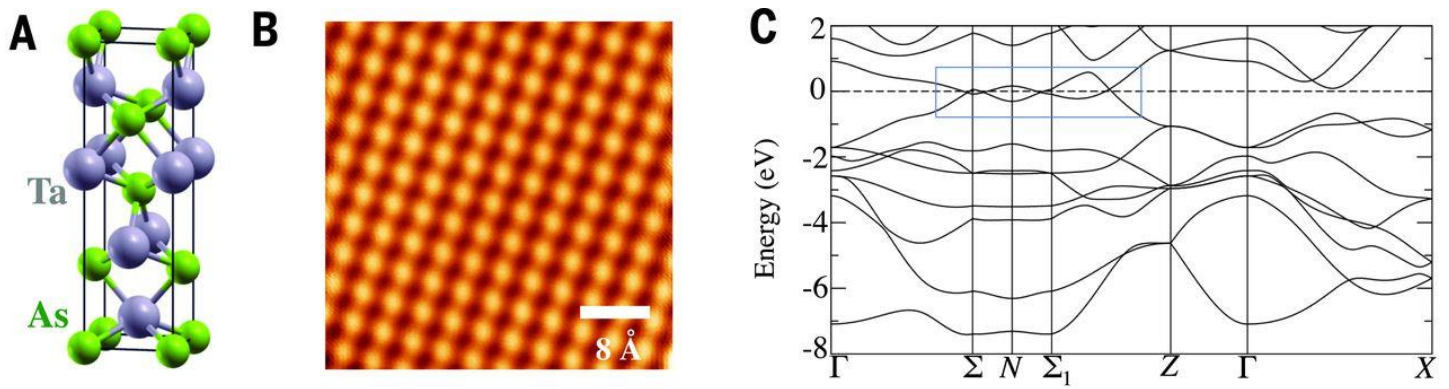




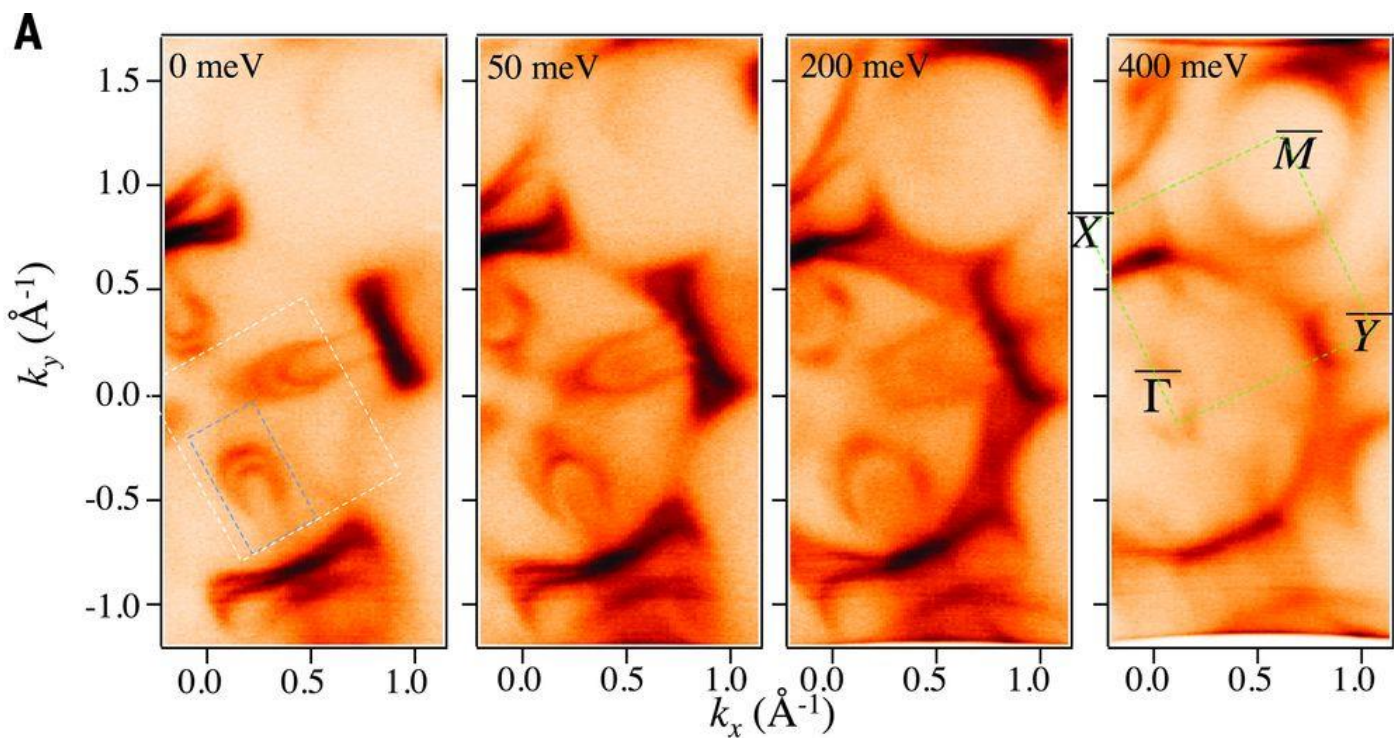




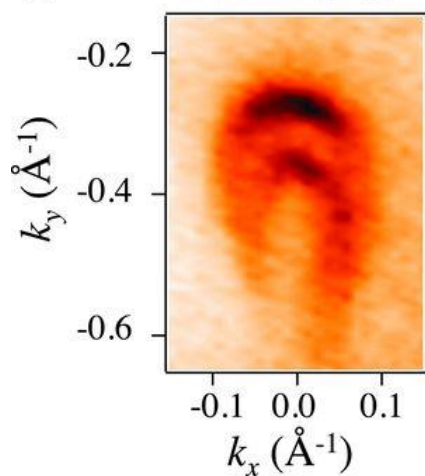




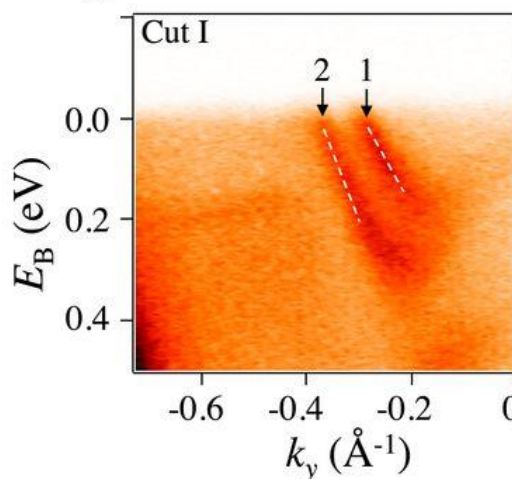




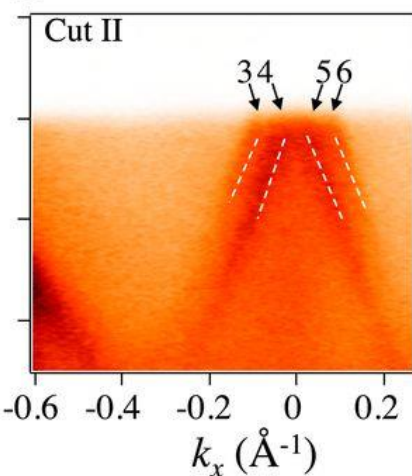
**B** **Fermi arcs**



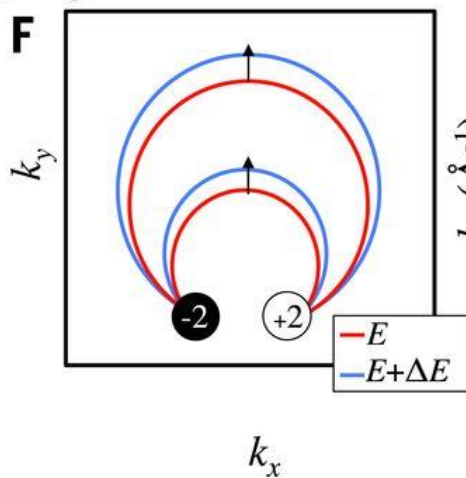
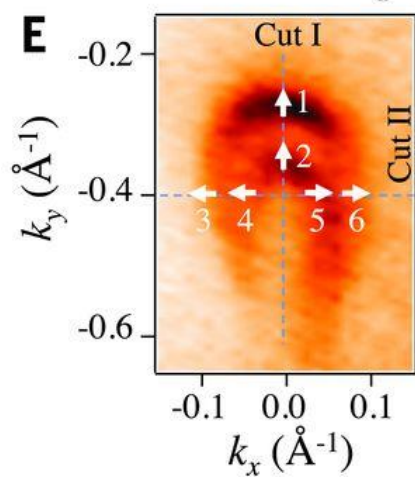
**C**



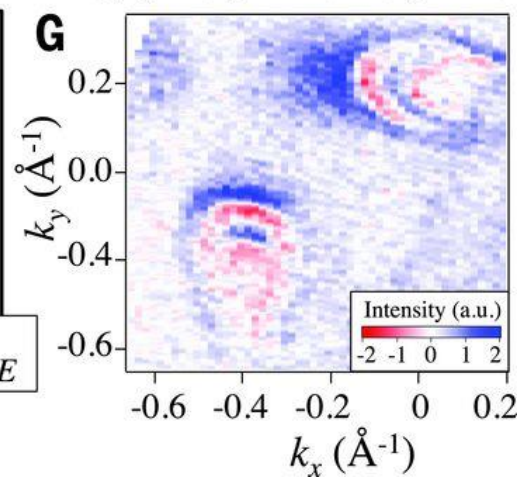
**D**



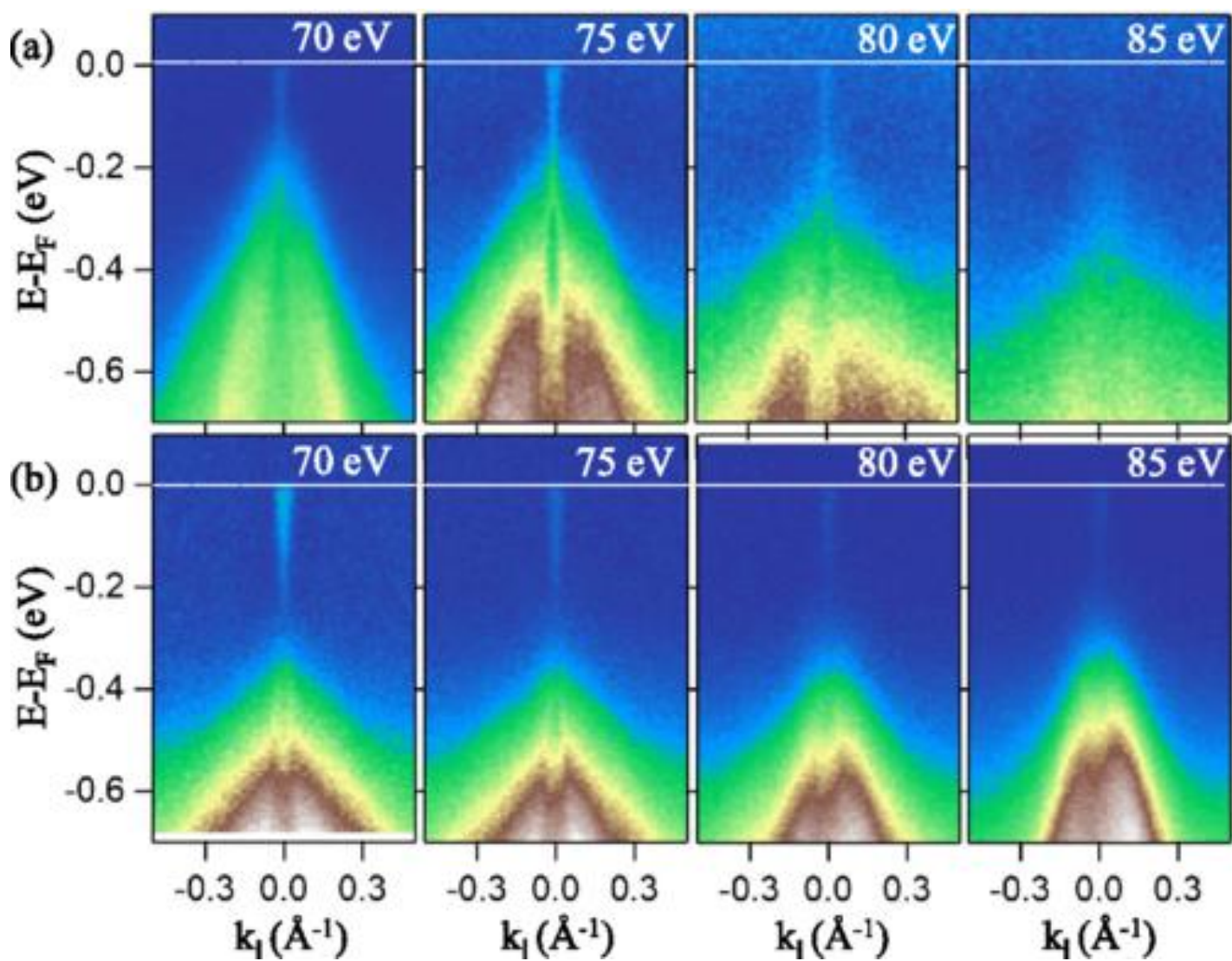
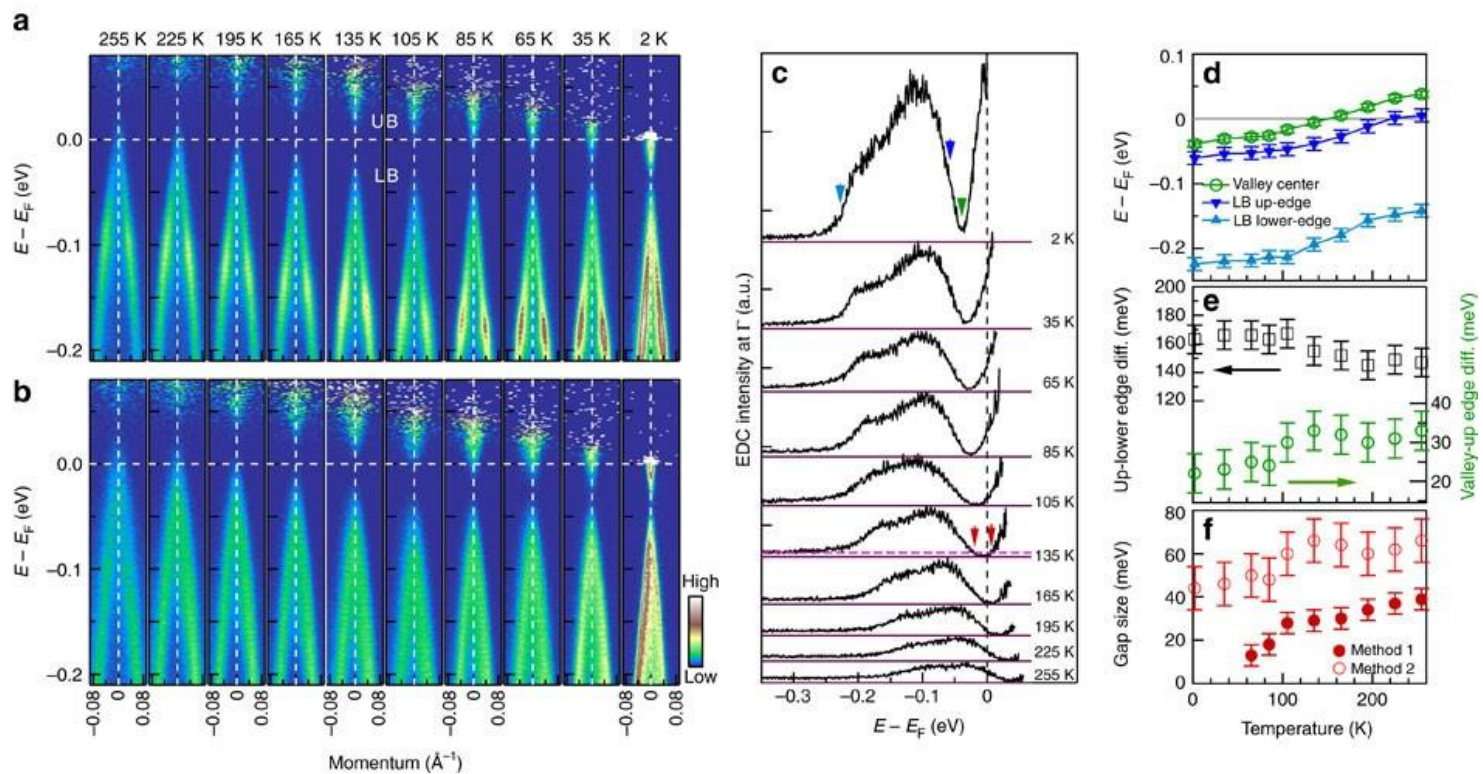
**E** **Co-propagating Fermi arcs**

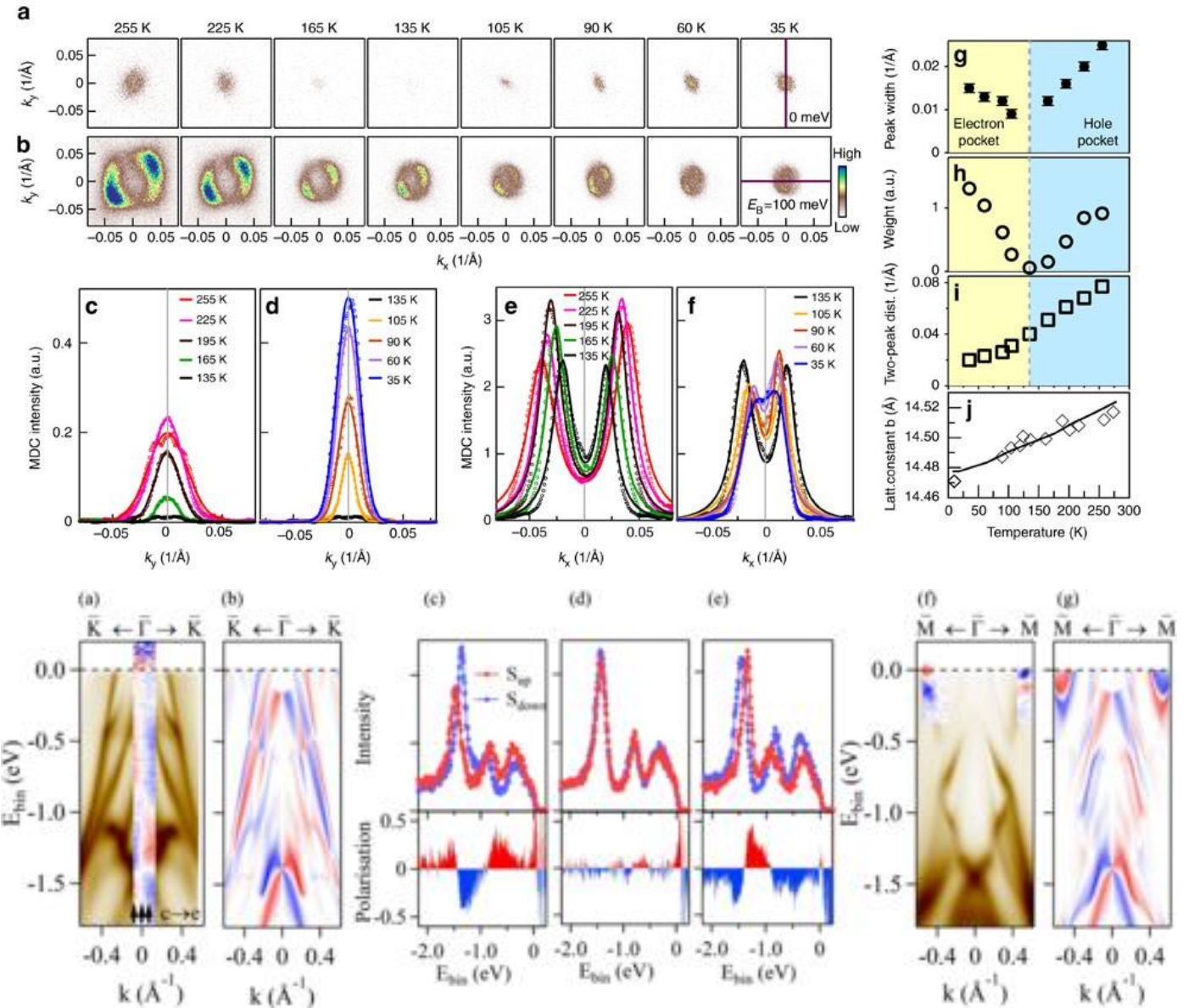
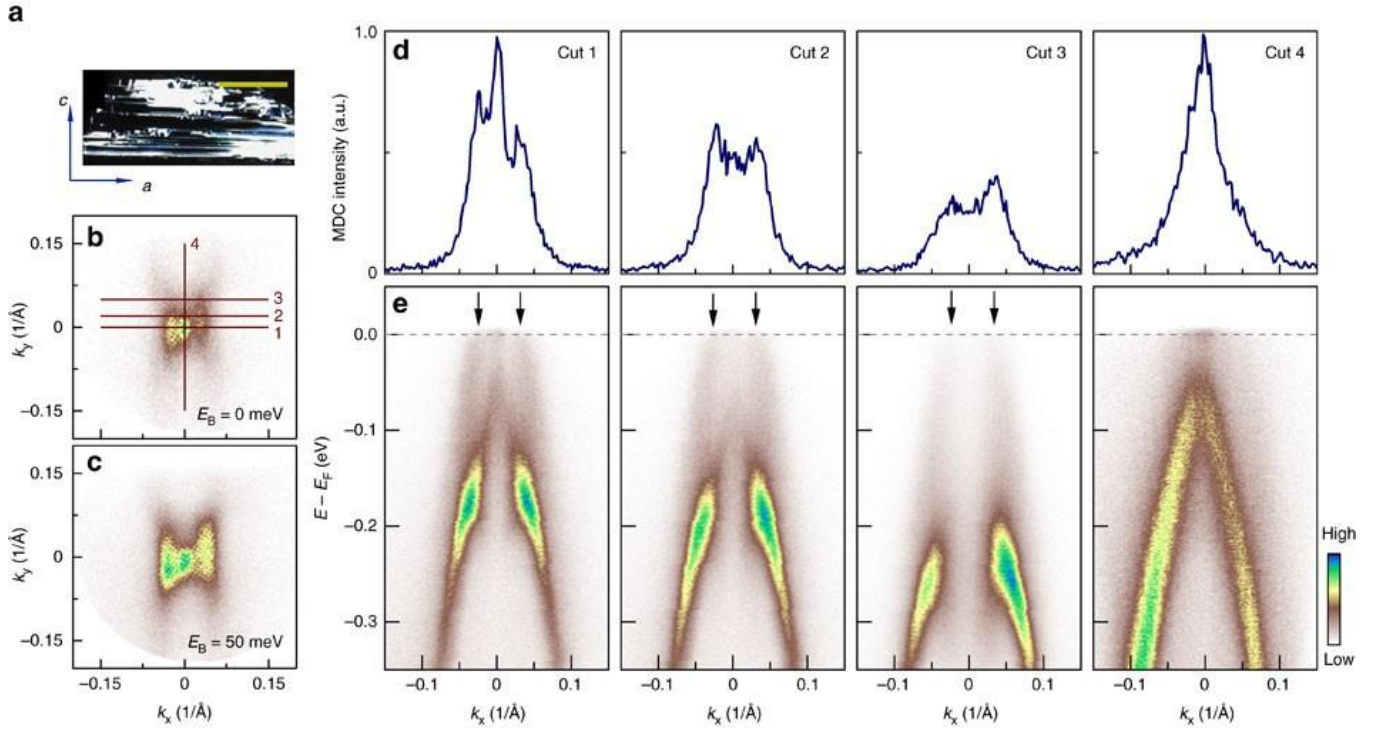


$$\Delta I(k_x, k_y) = I(E_B=20\text{meV}) - I(E_B=0\text{meV})$$

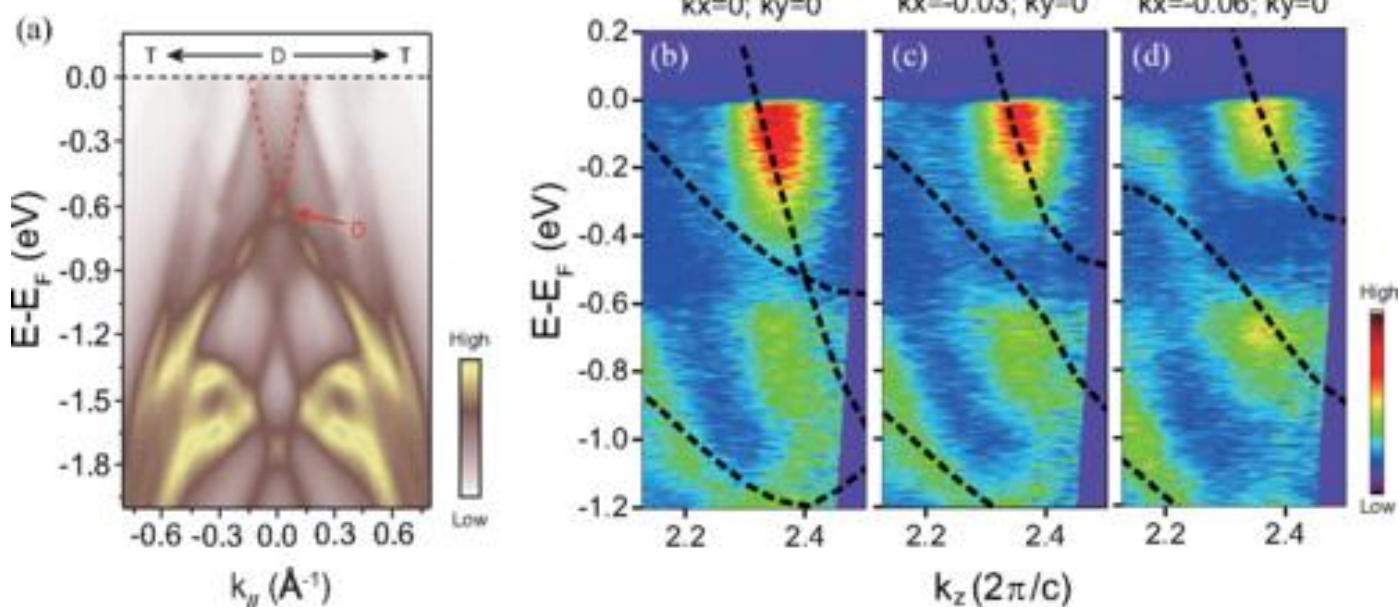
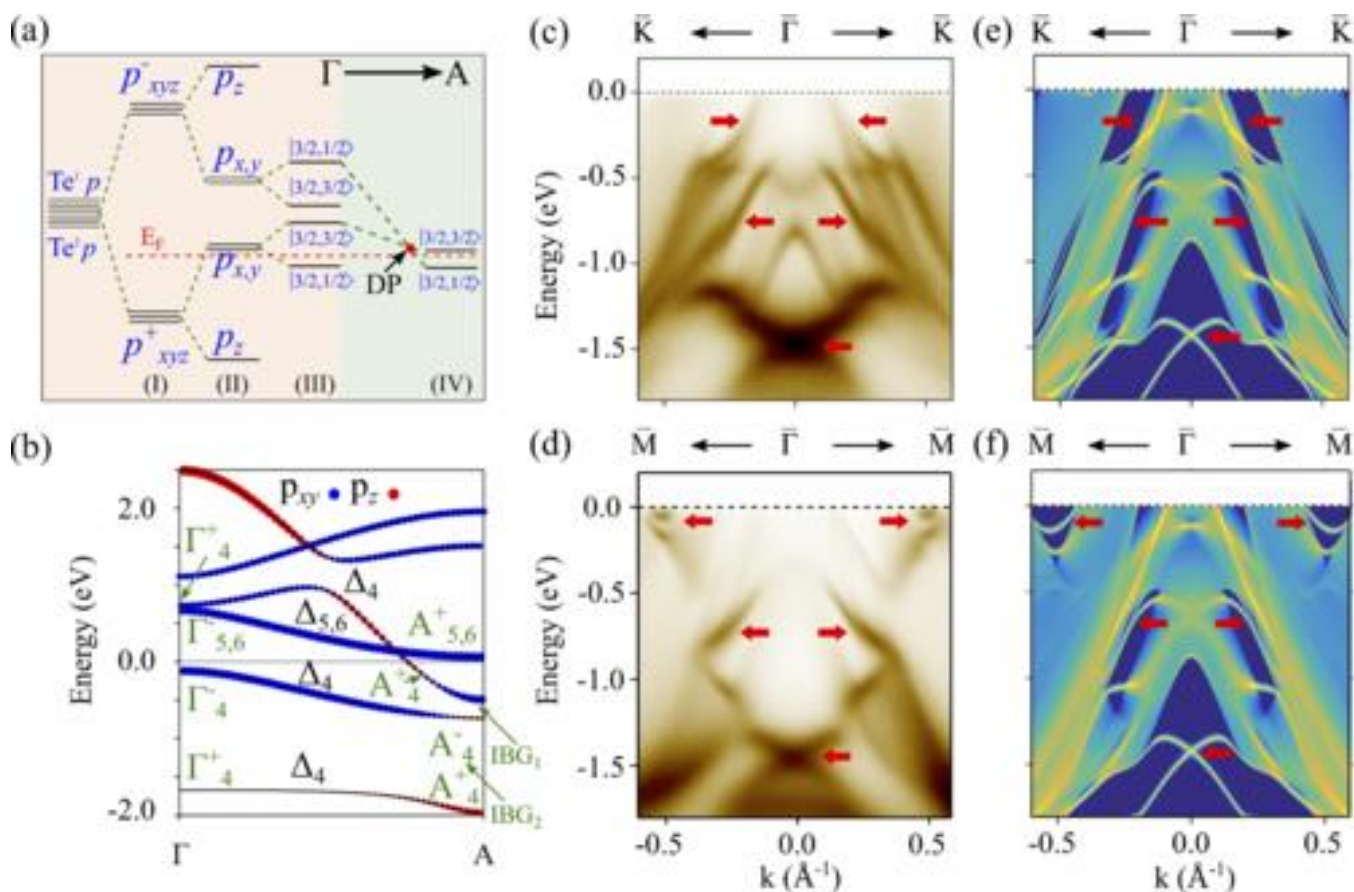
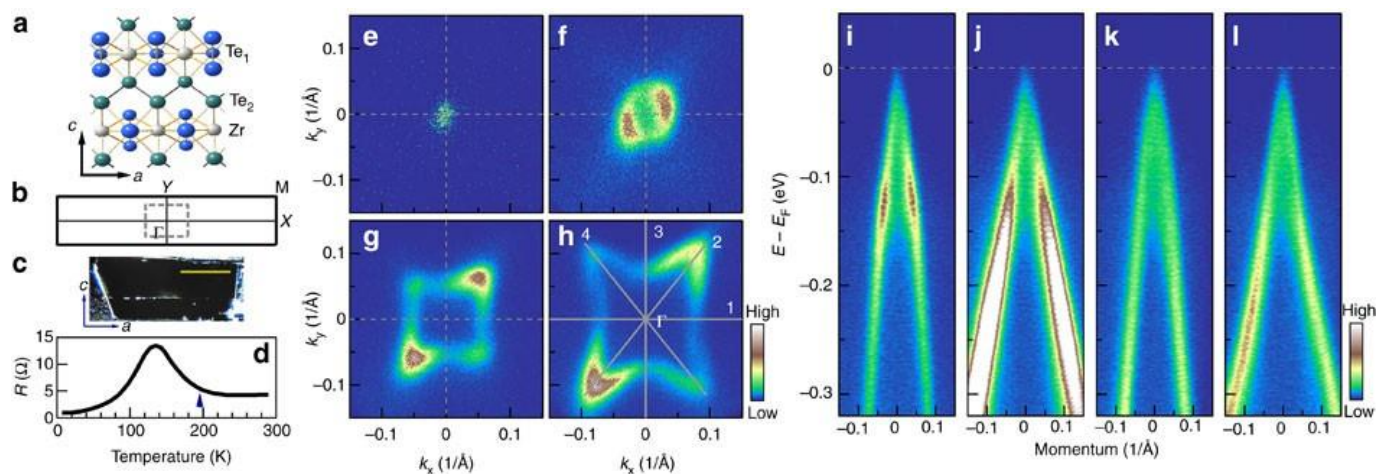




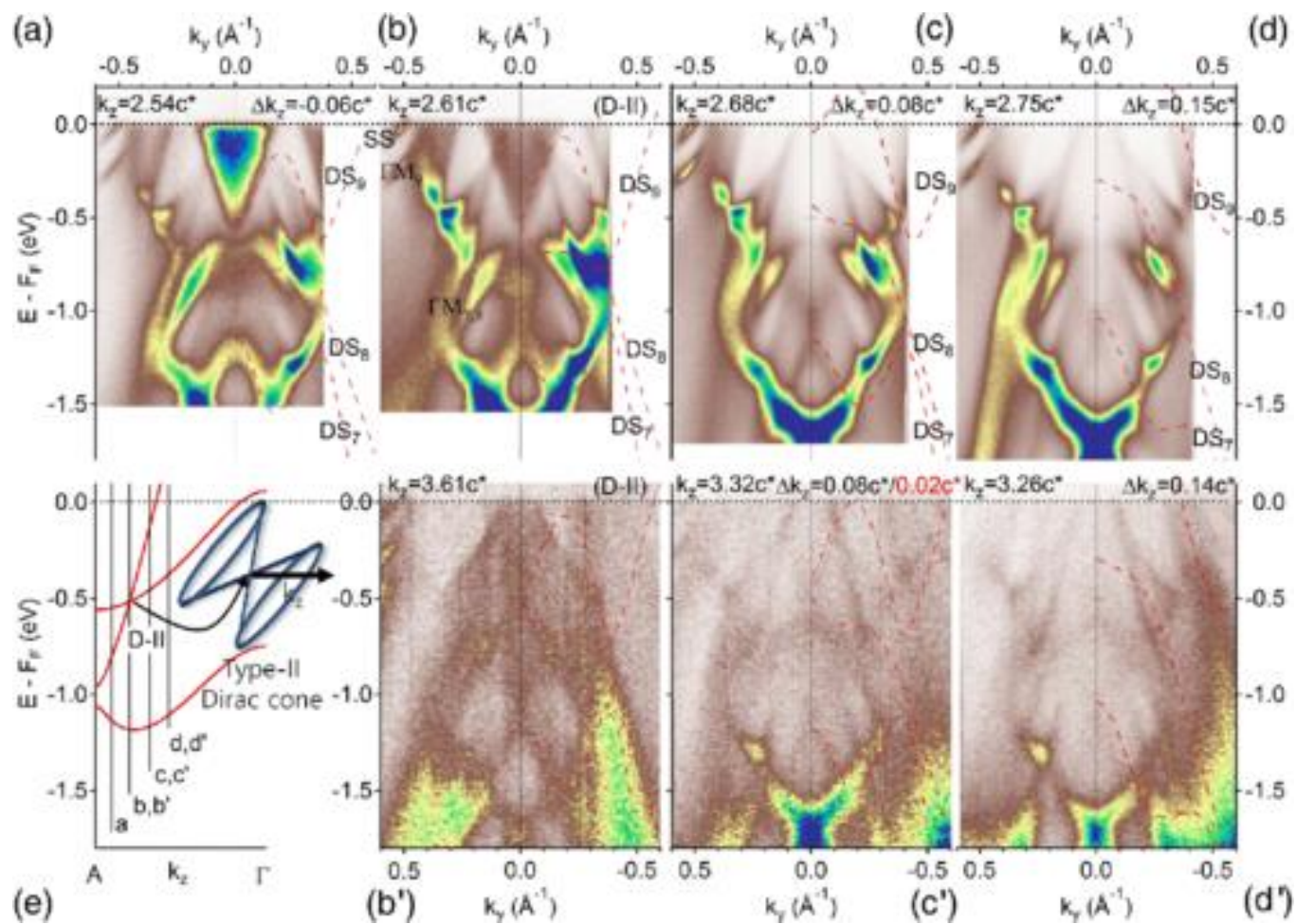
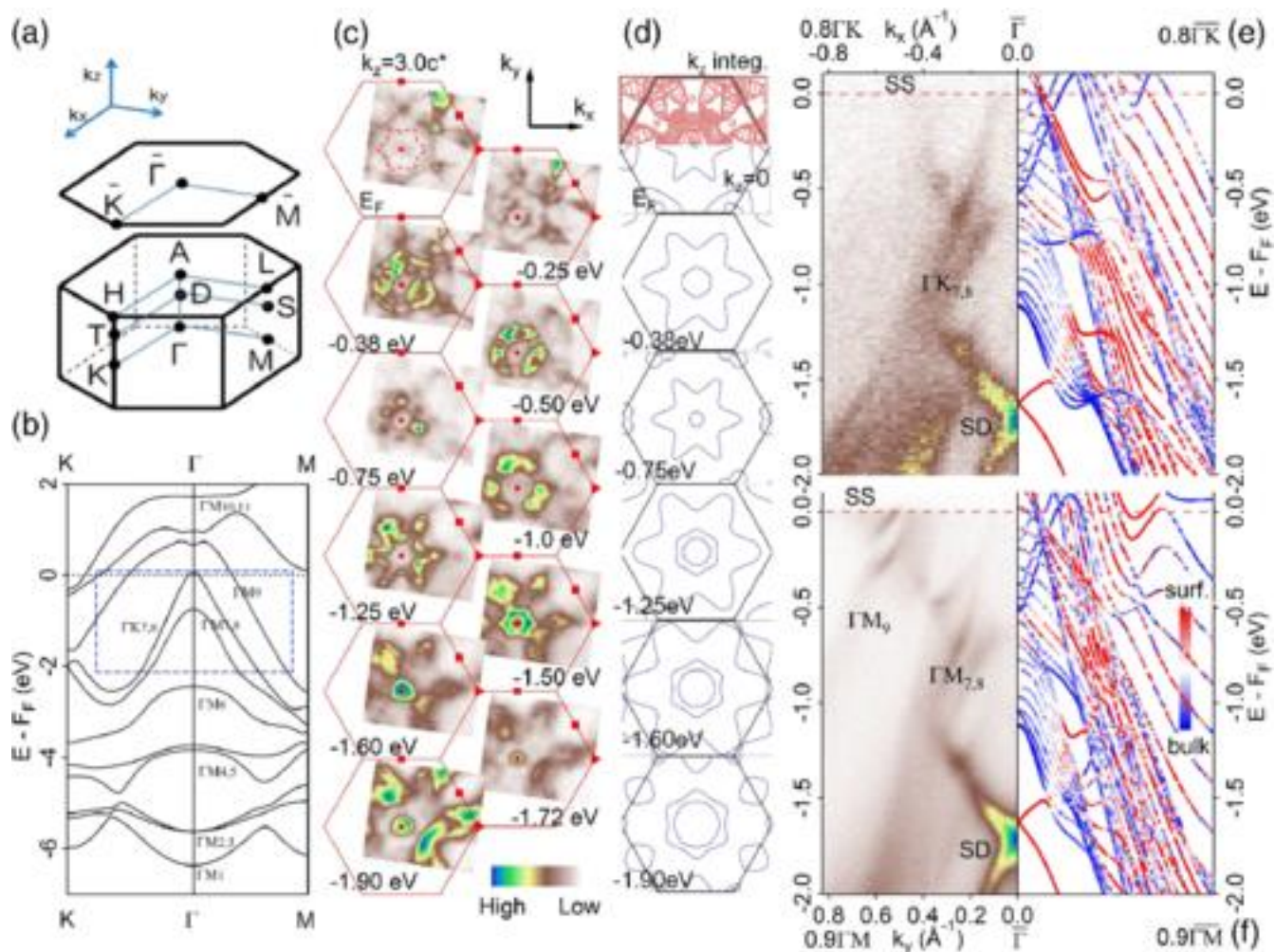




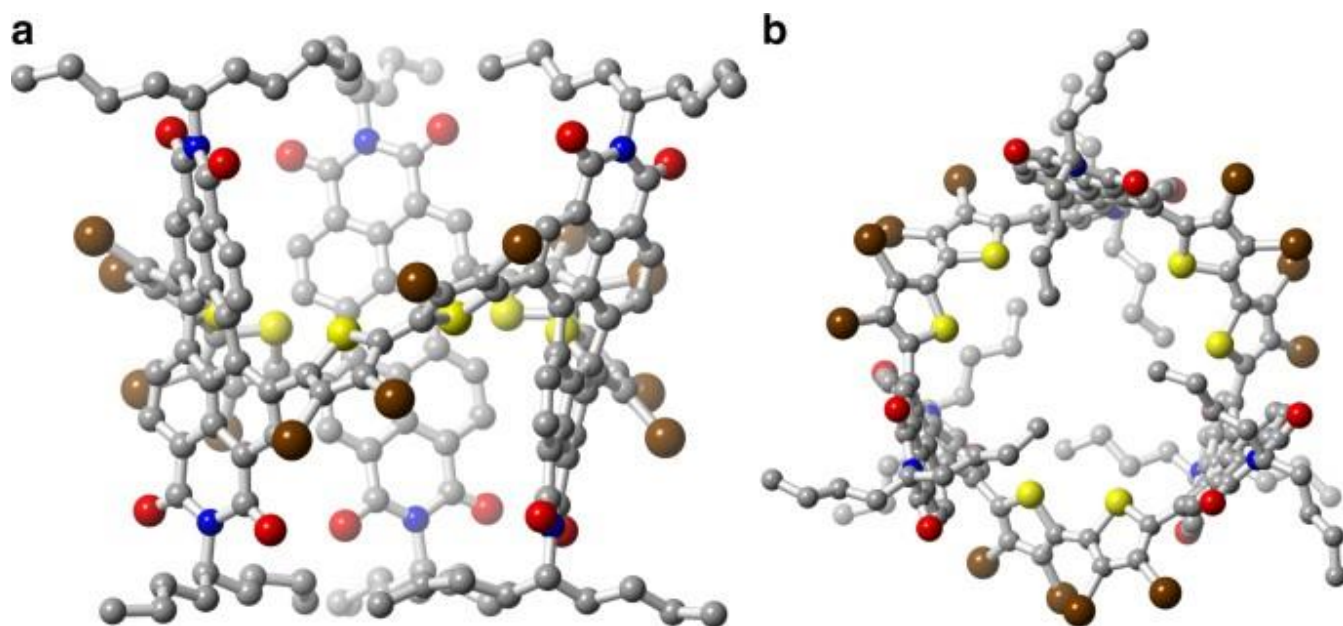
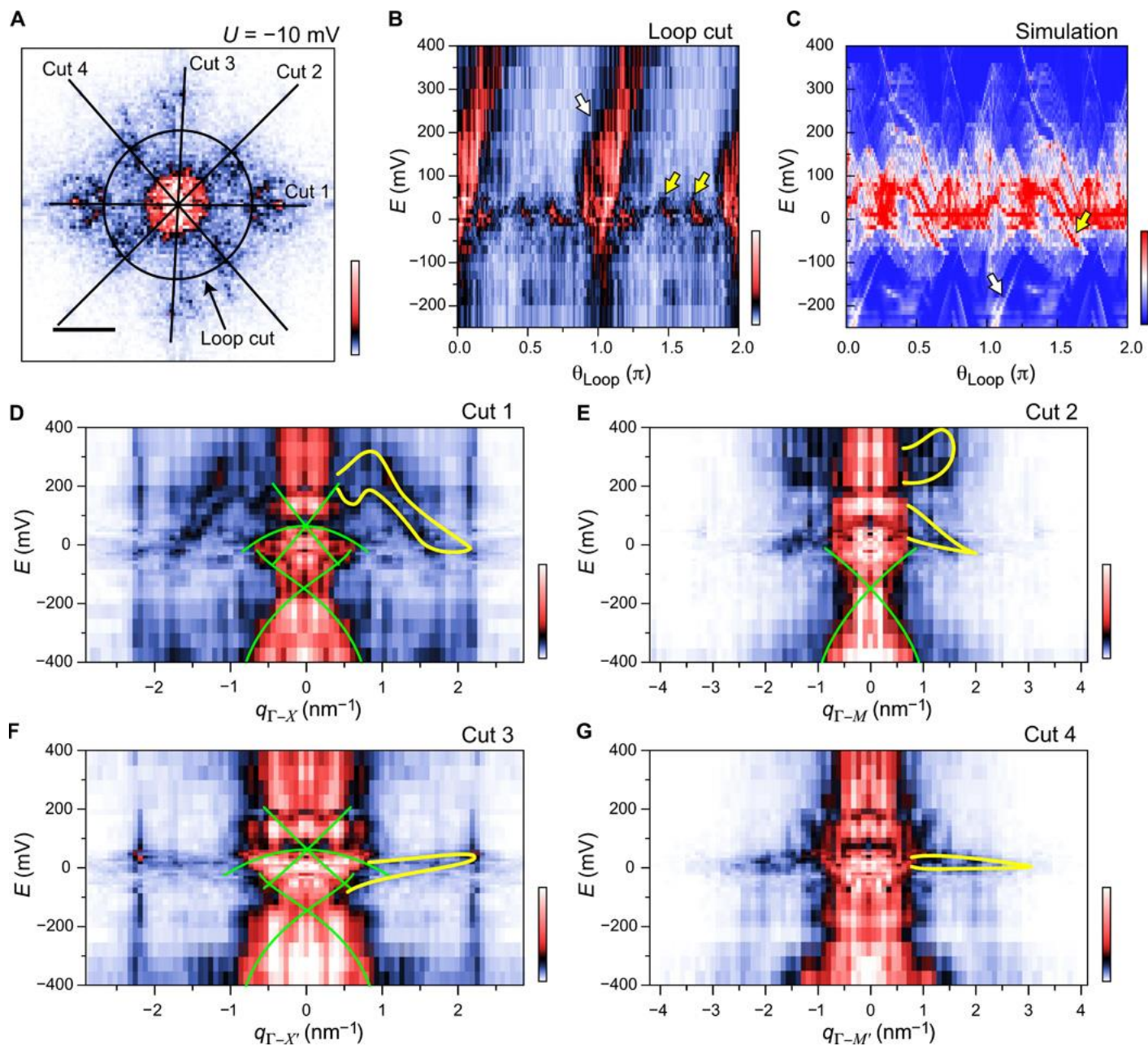




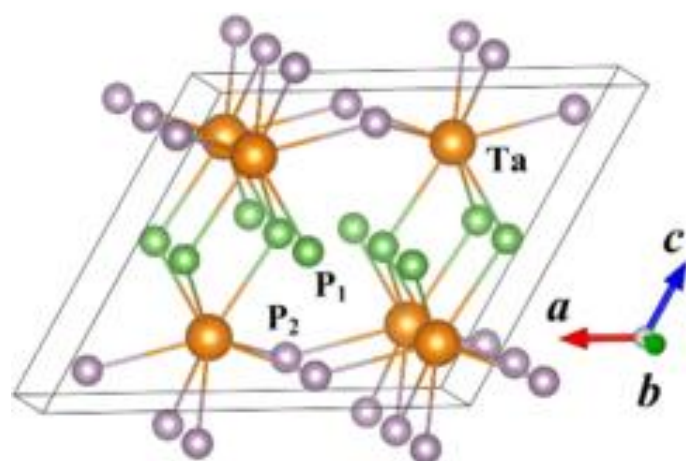




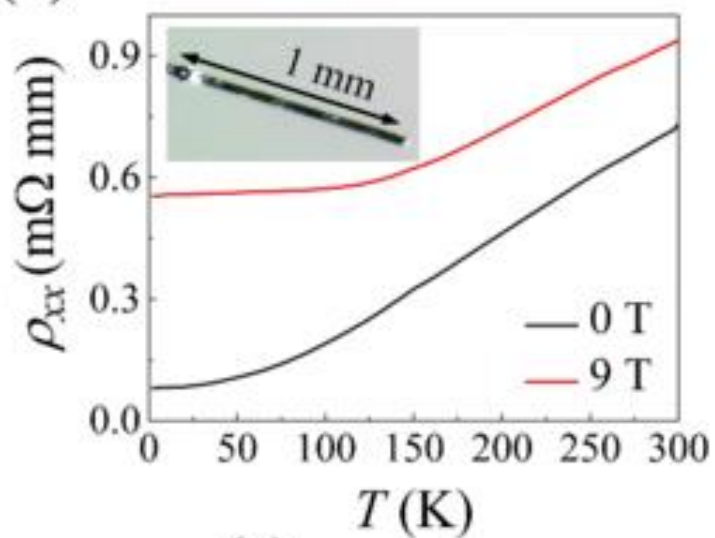




(a)



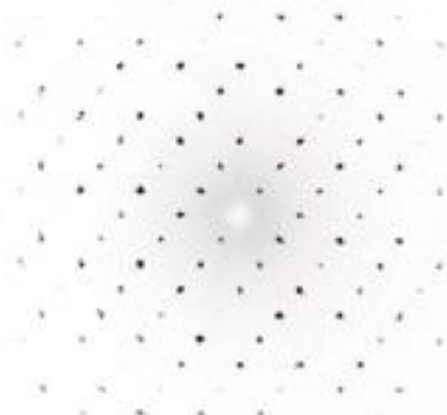
(b)



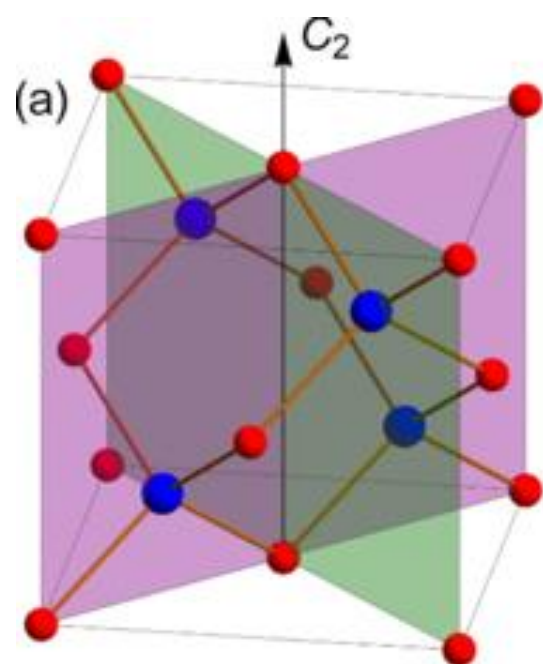
(c)

 $(0\ k\ l)$ 

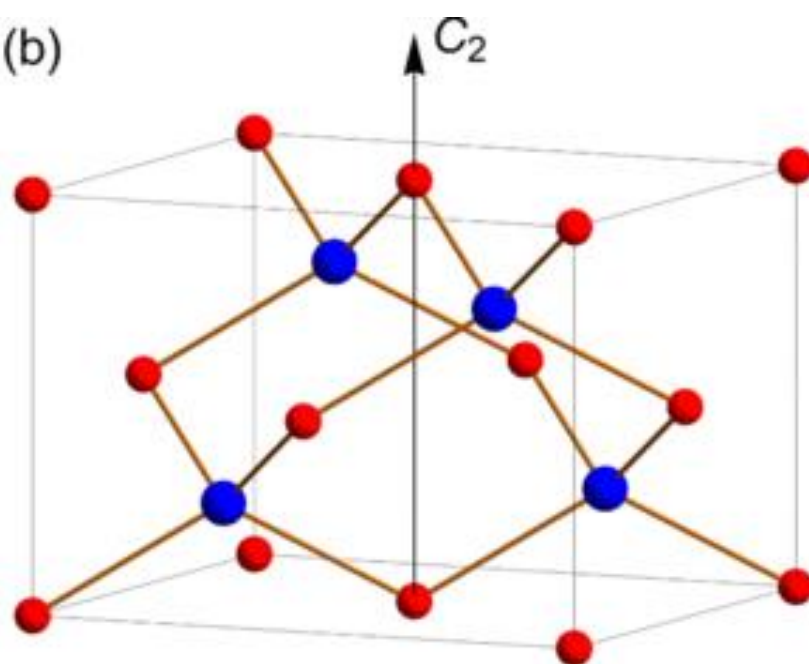
(d)

 $(h\ 0\ l)$ 

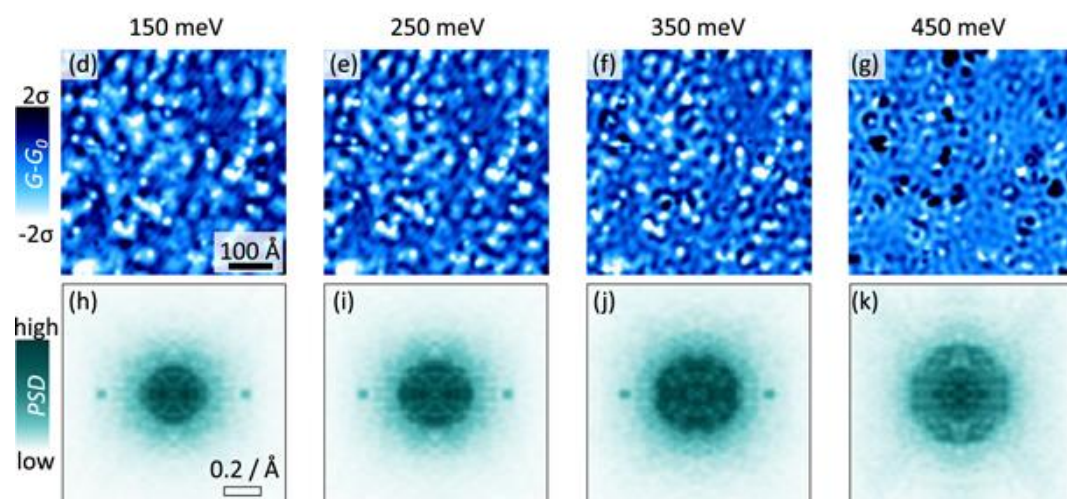
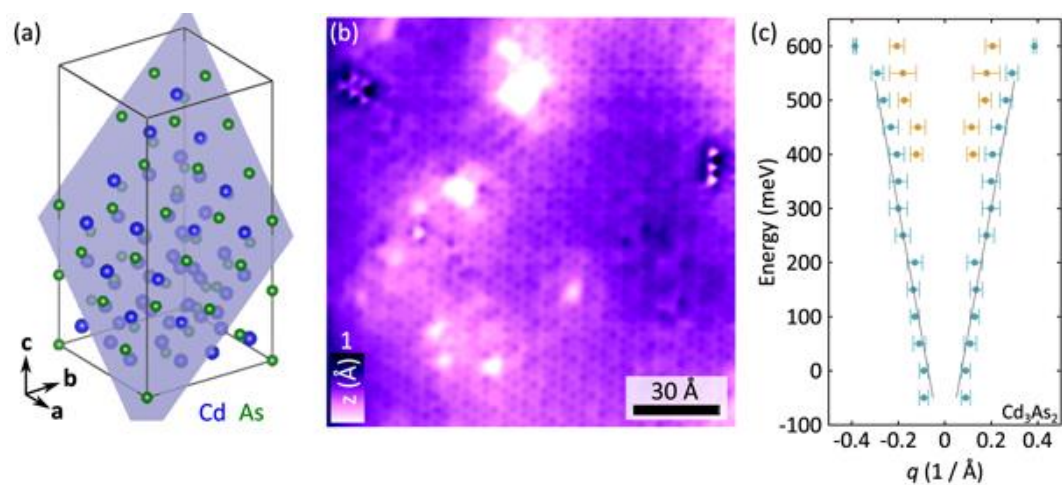
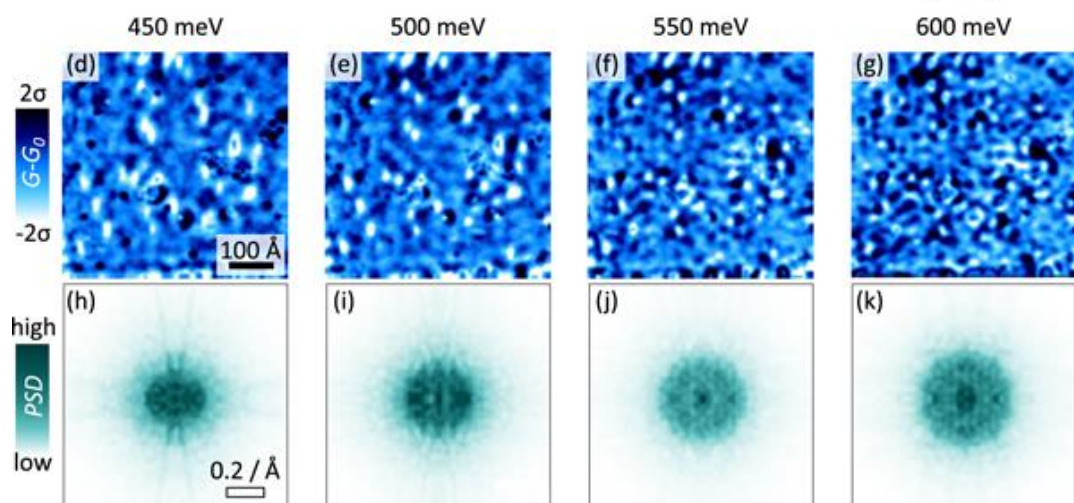
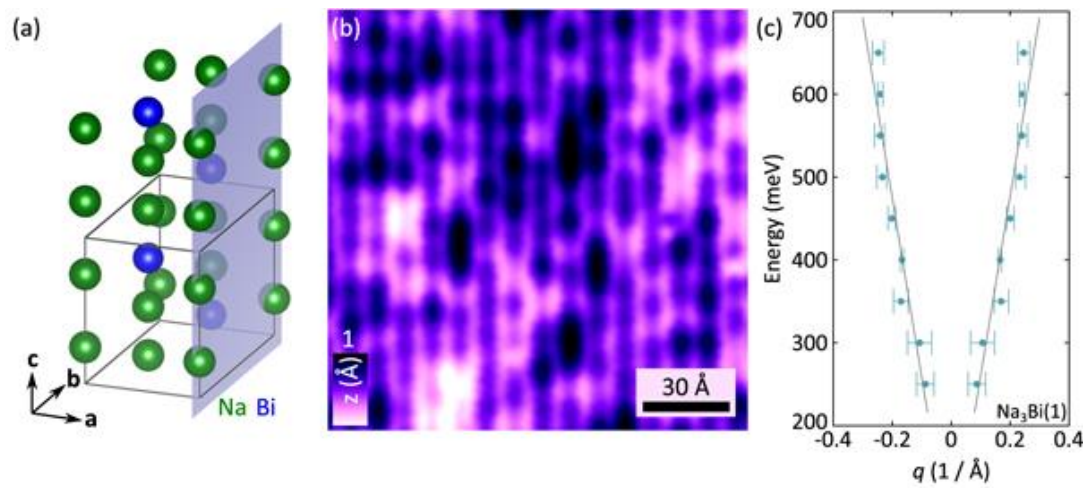
(e)

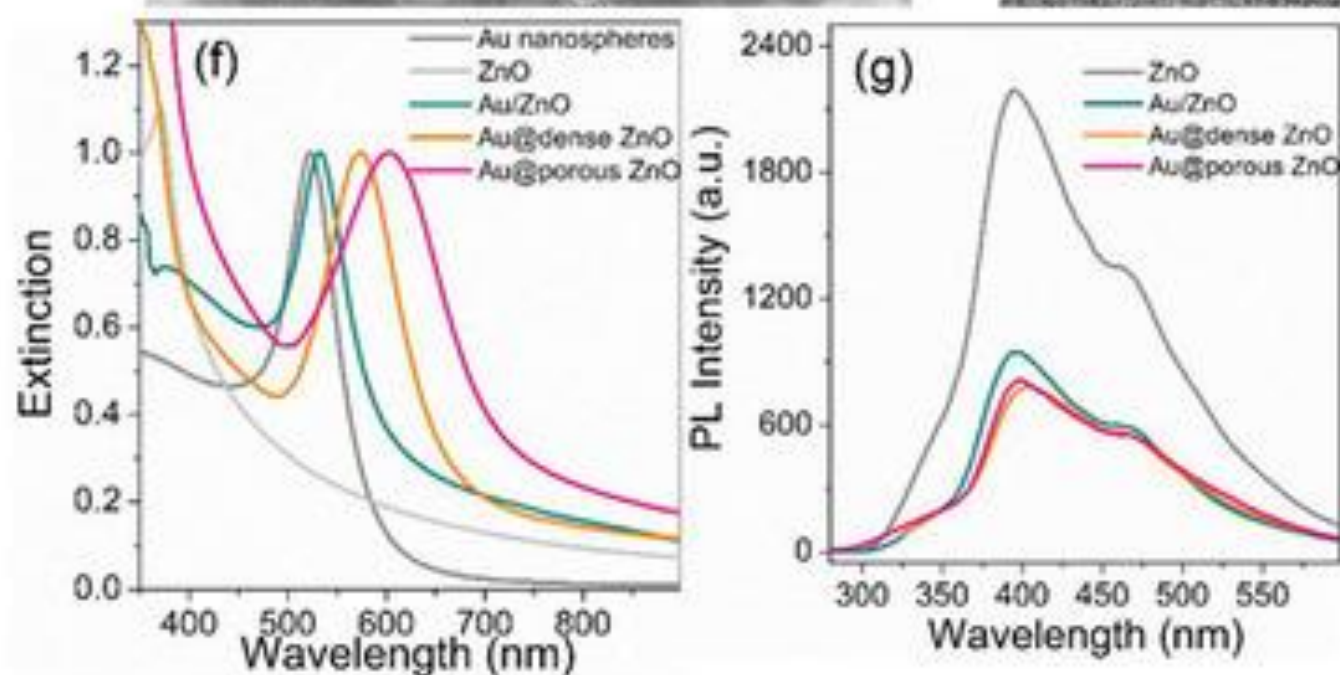
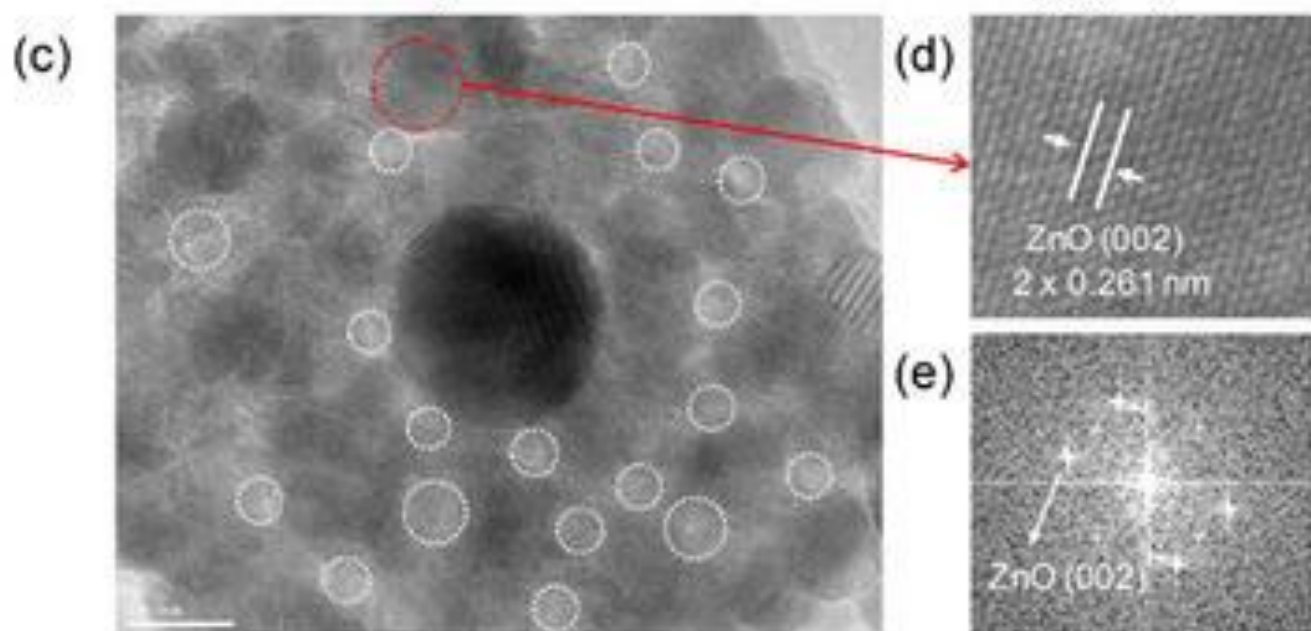
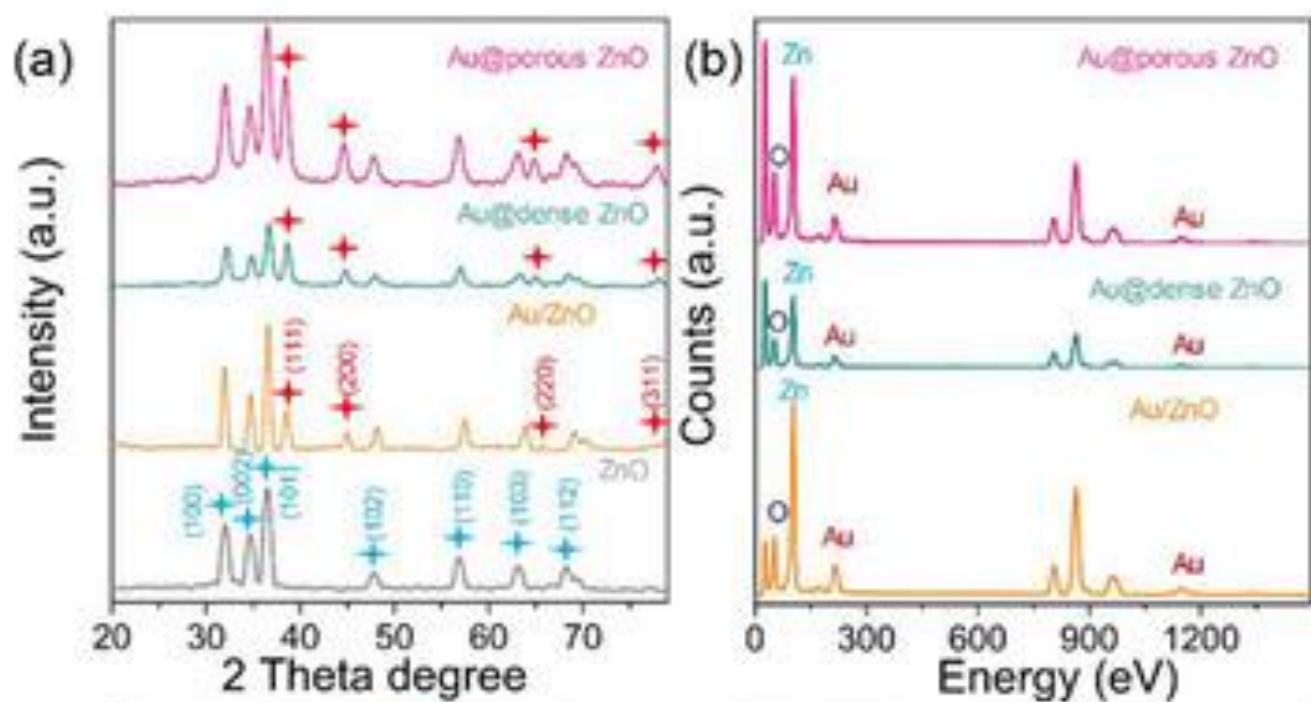
 $(h\ k\ 0)$ 

(b)

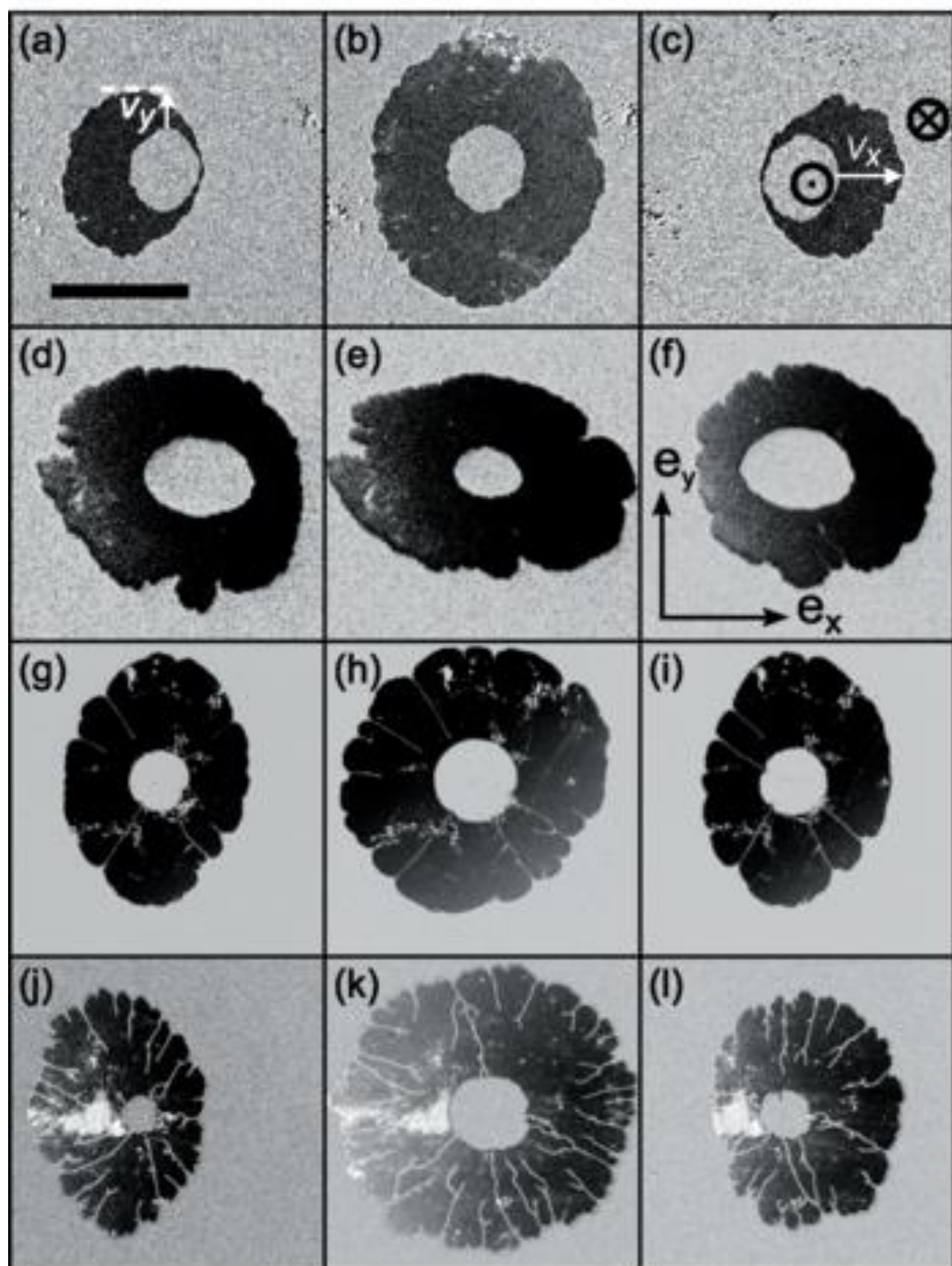


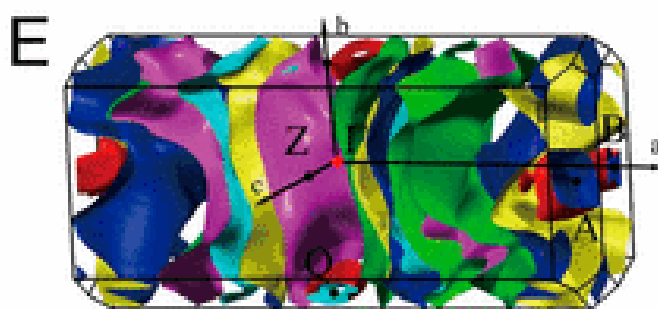
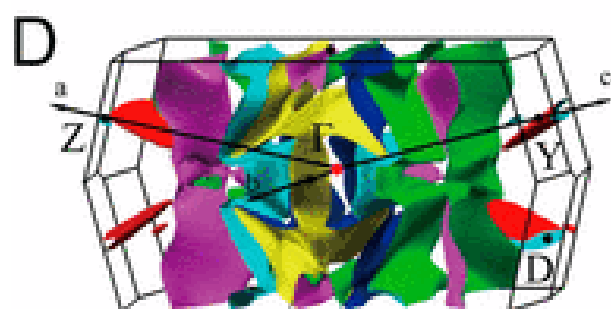
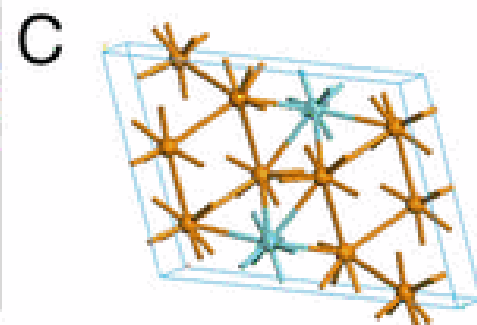
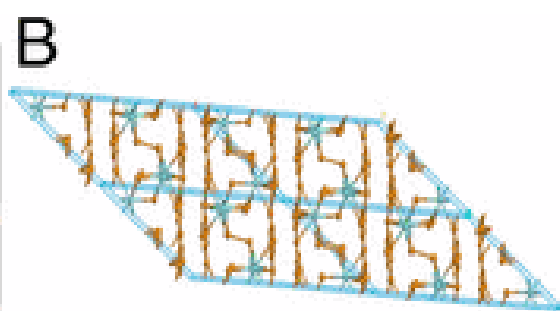
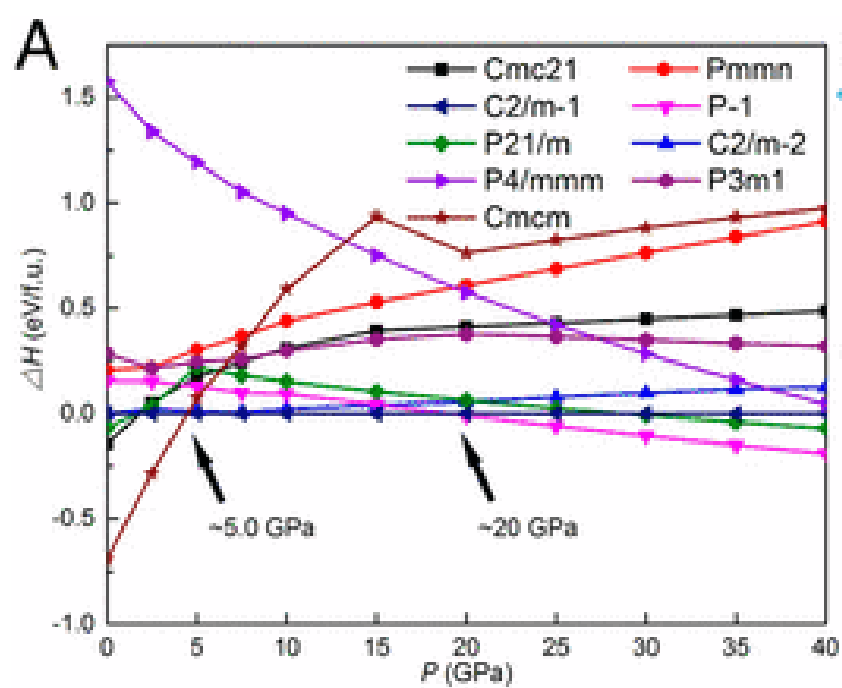
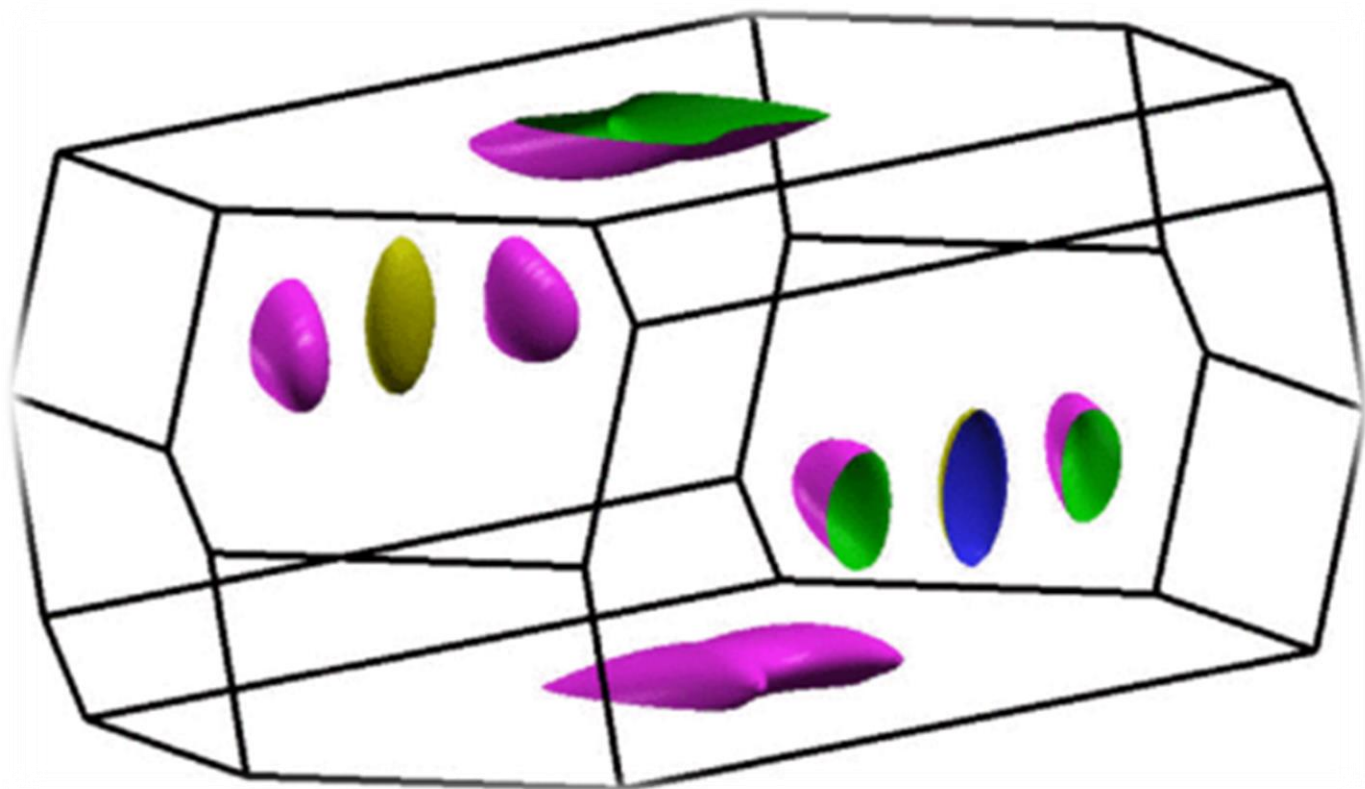




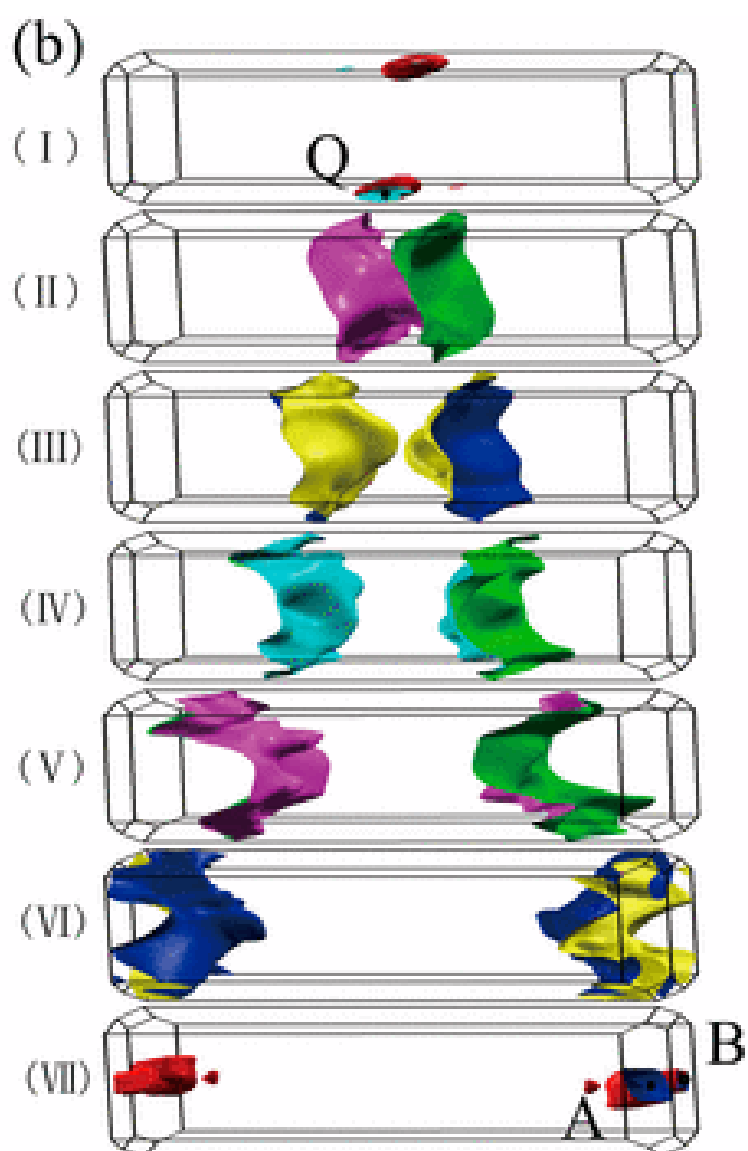
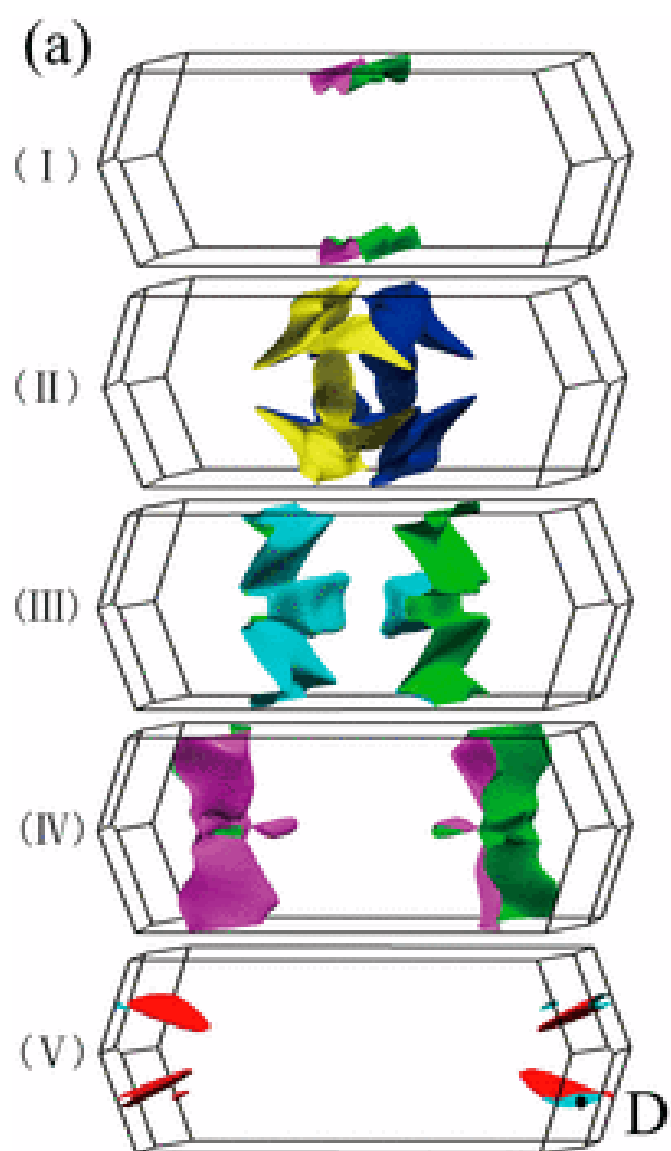
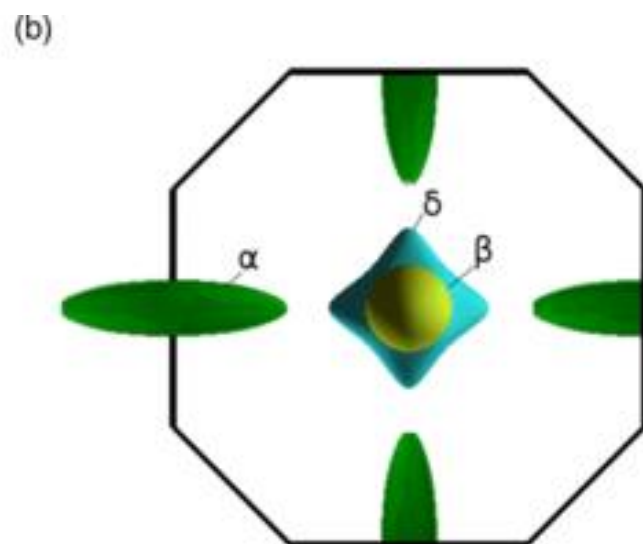
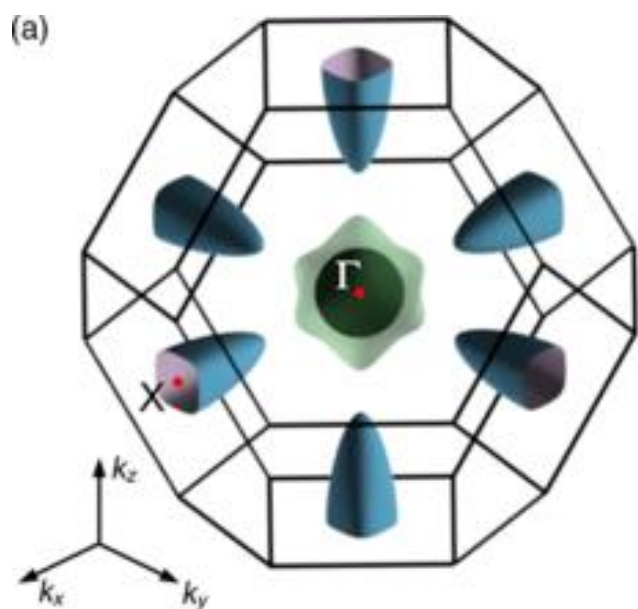


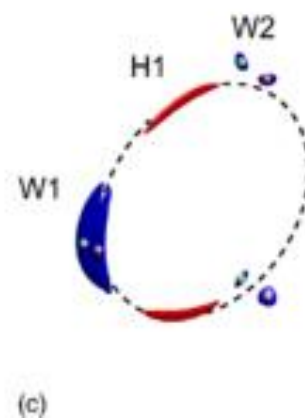
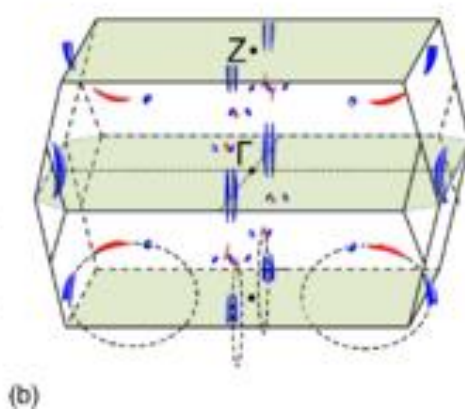
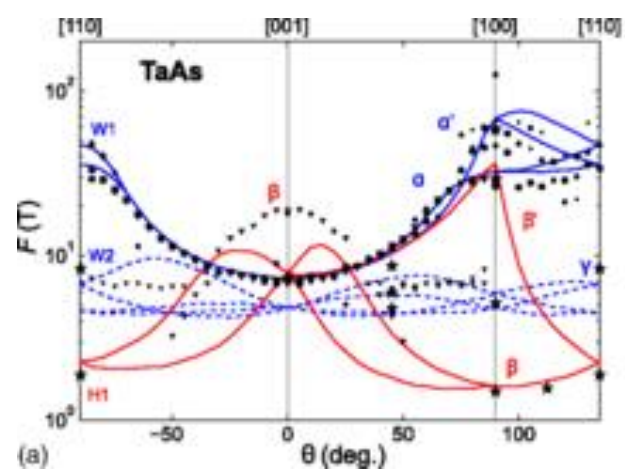
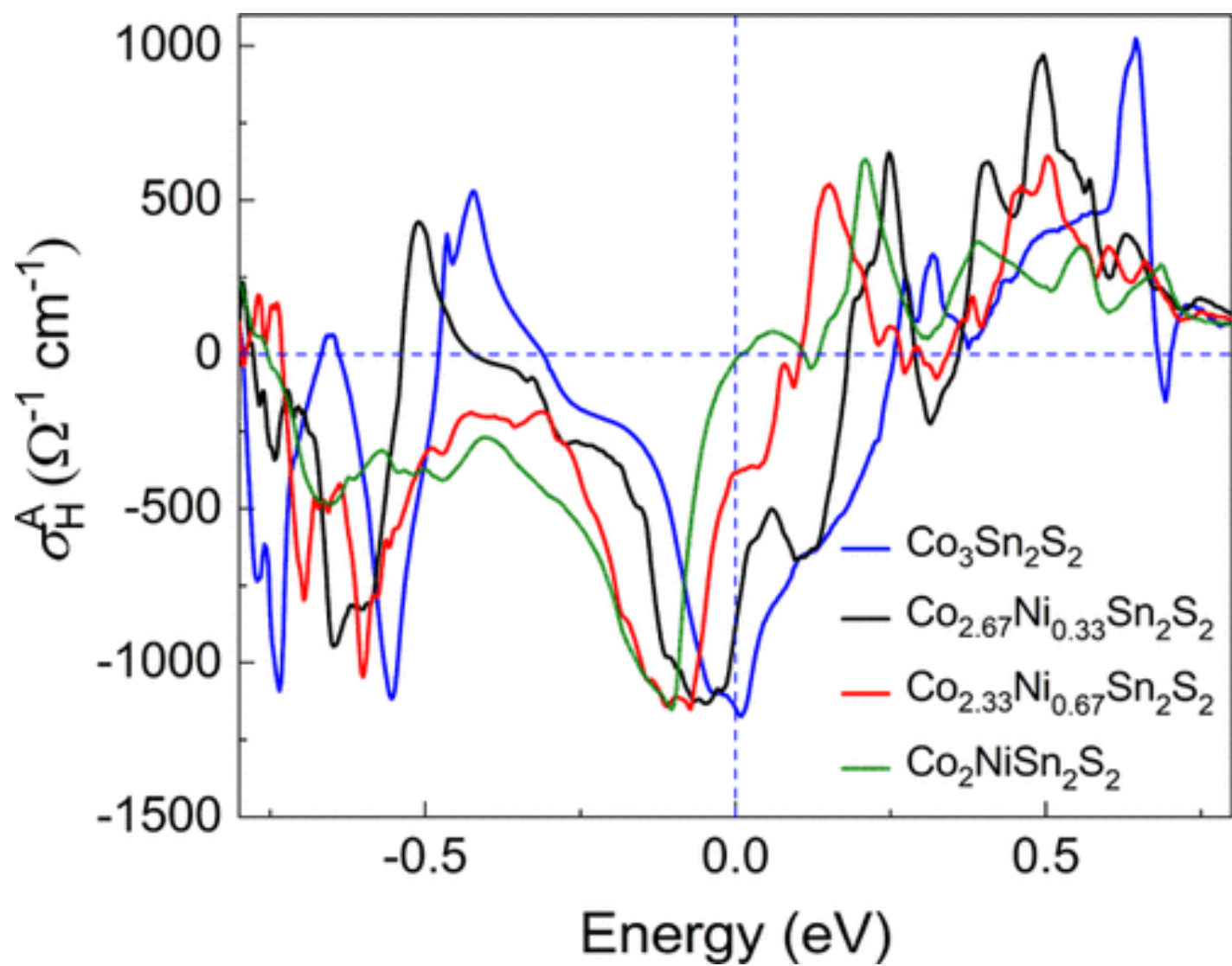


$\mu_0 H_x = -50 \text{ mT}$  $\mu_0 H_x = 0 \text{ mT}$  $\mu_0 H_x = +50 \text{ mT}$ 

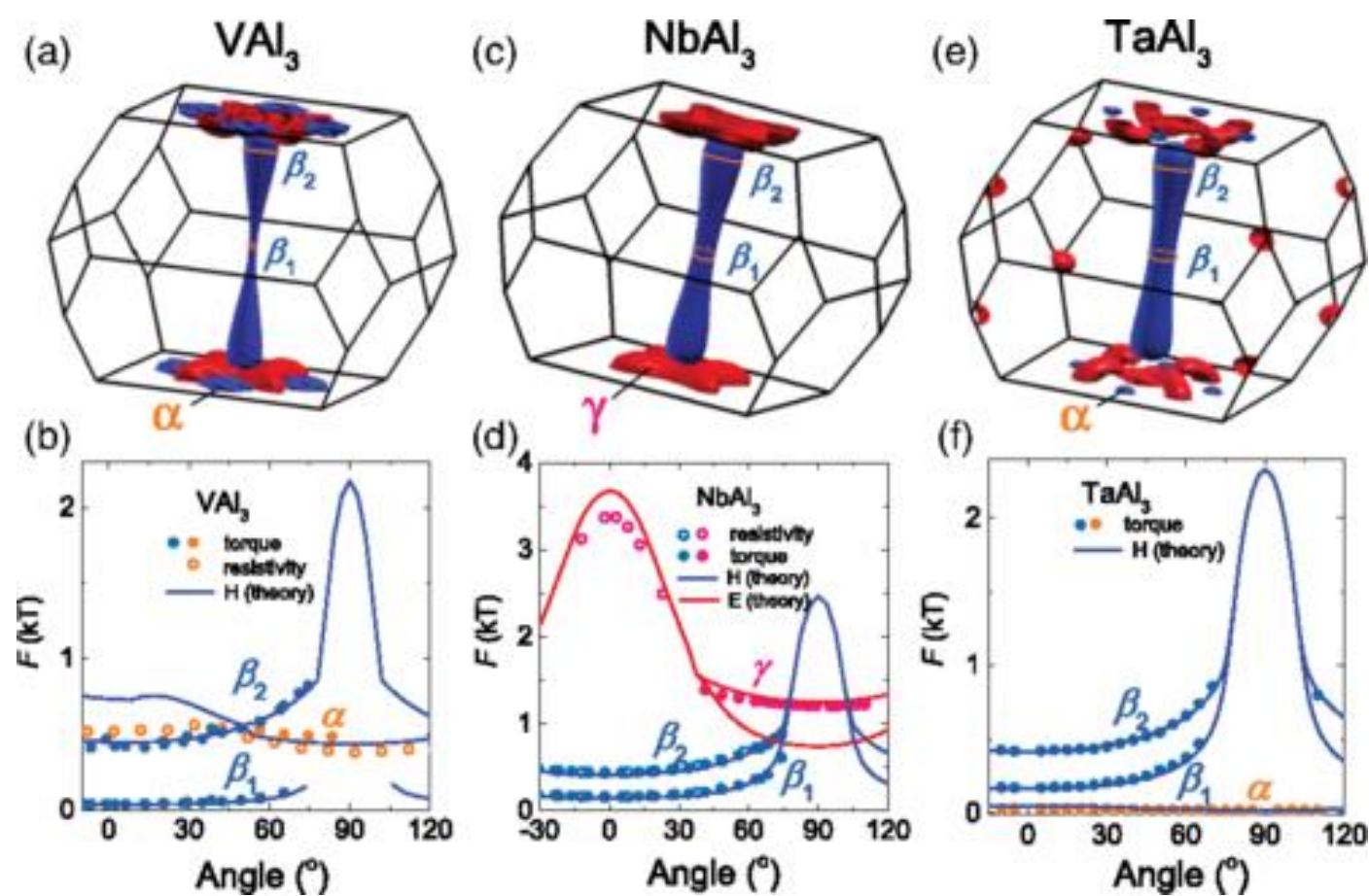
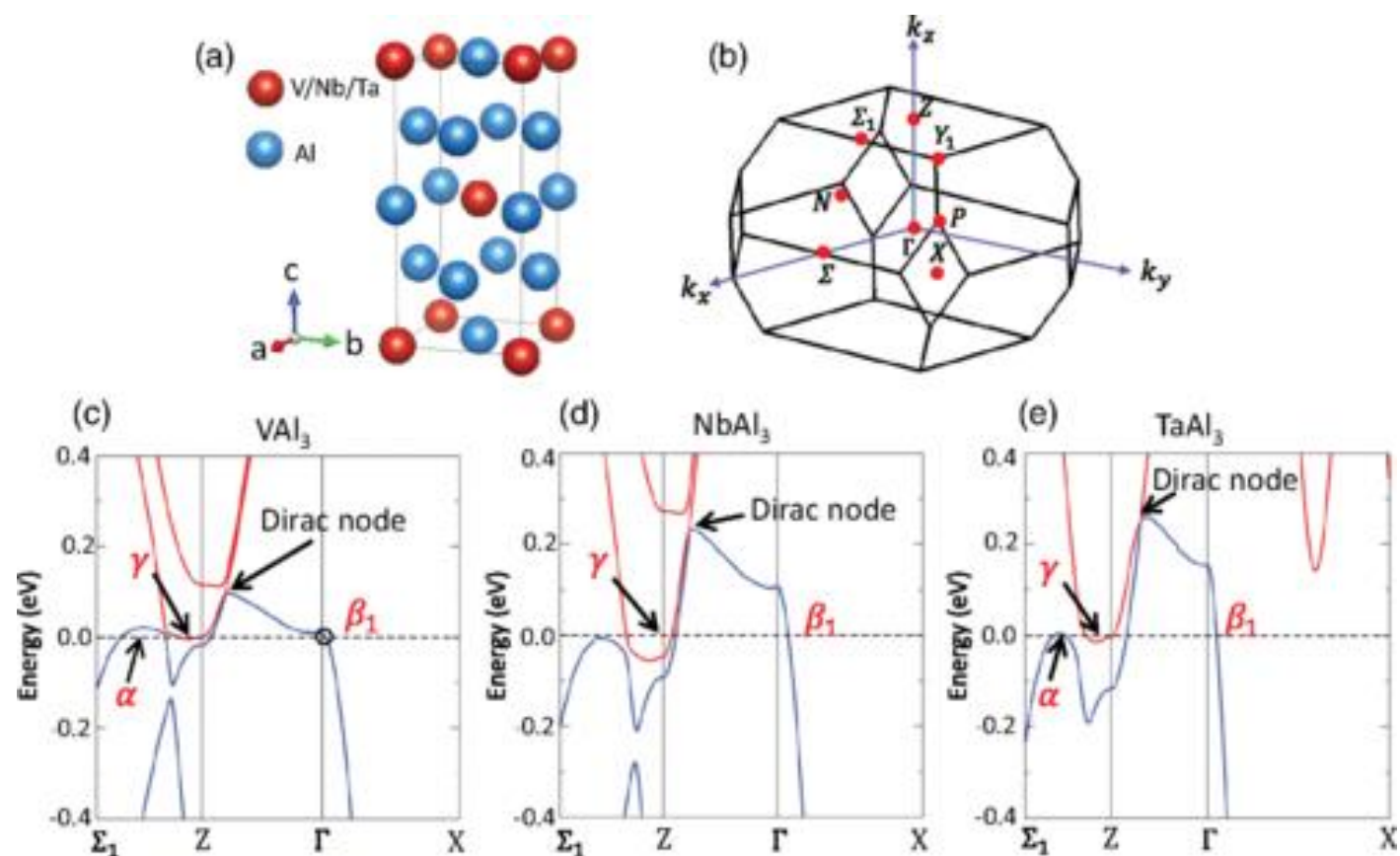


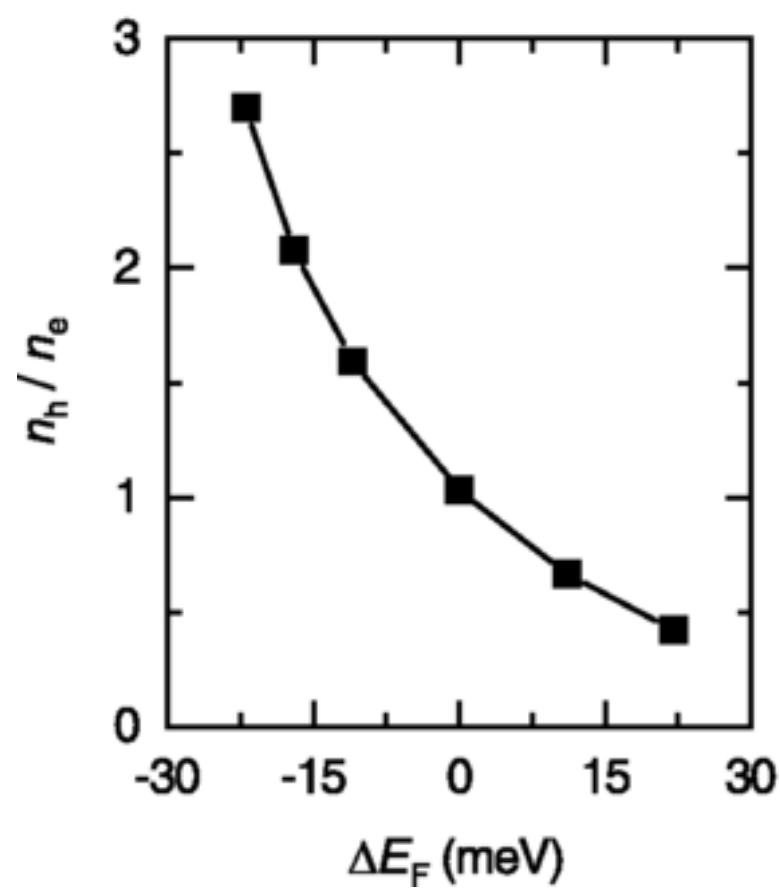
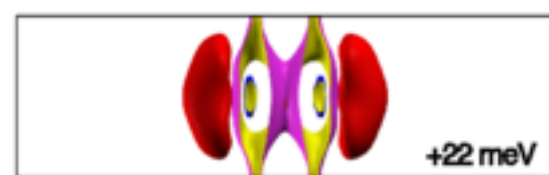
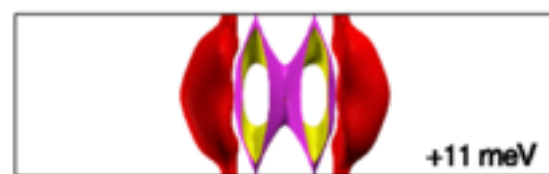
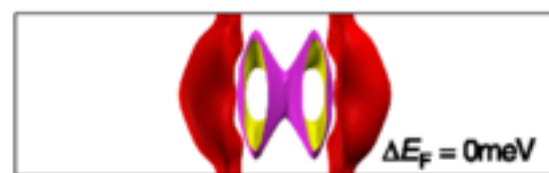
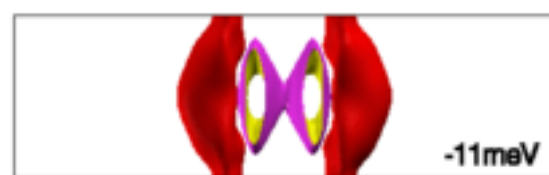
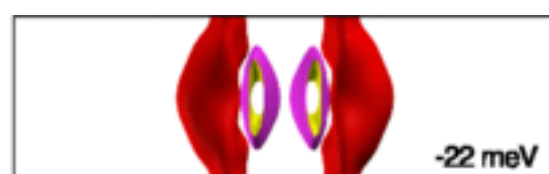
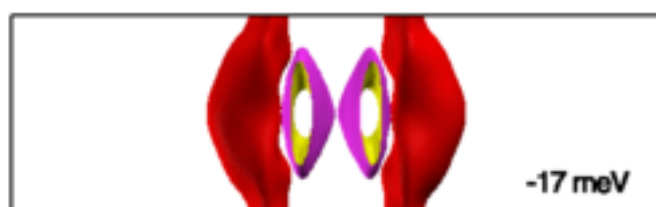
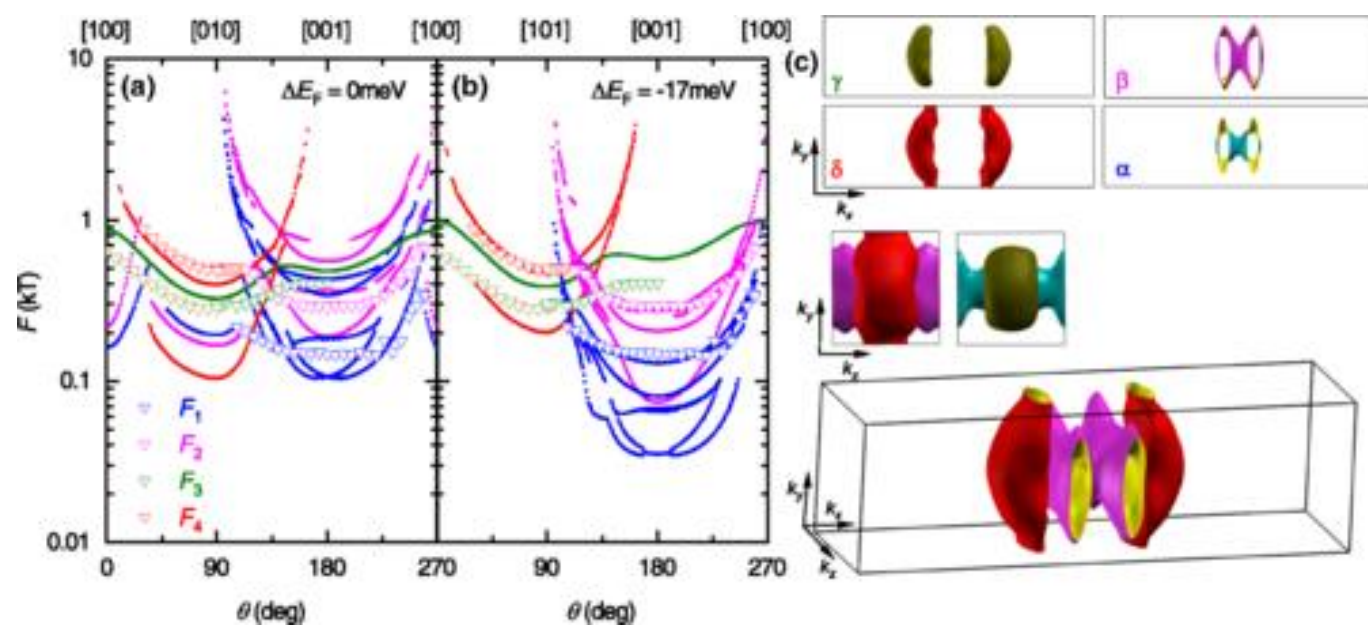




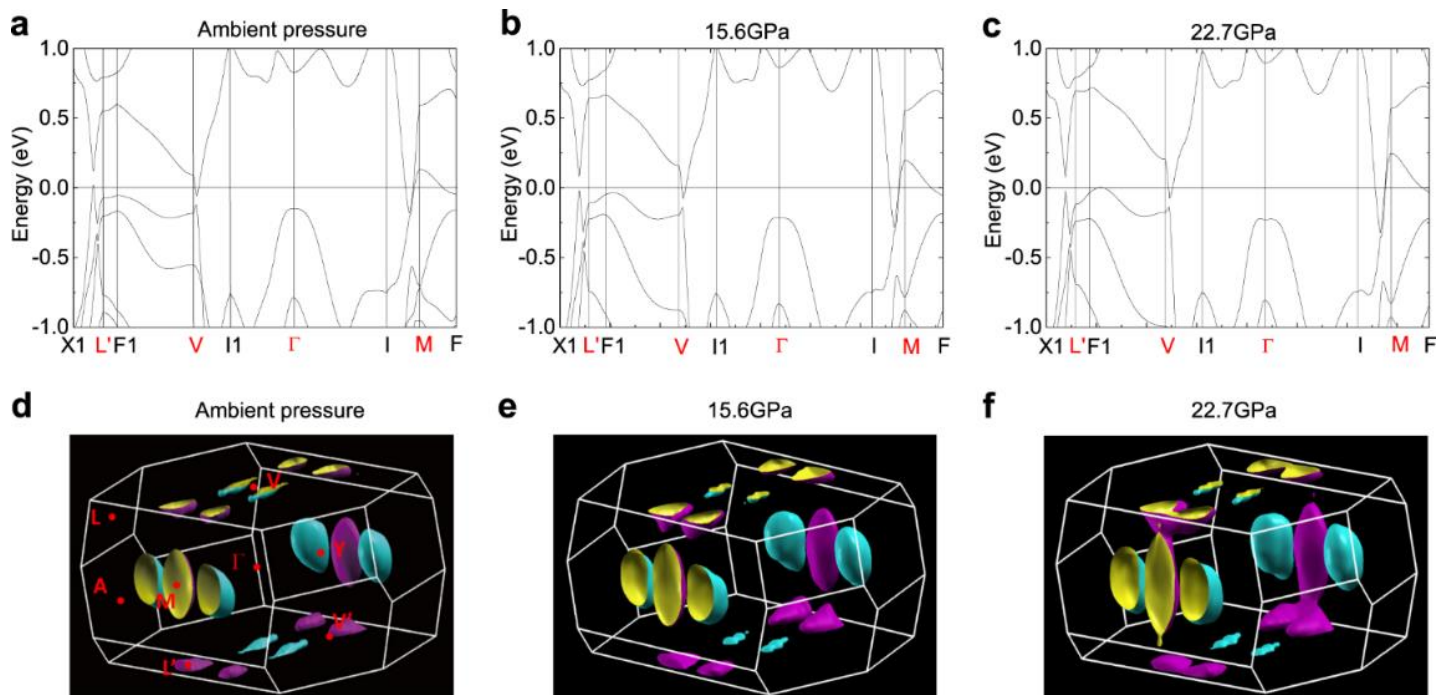
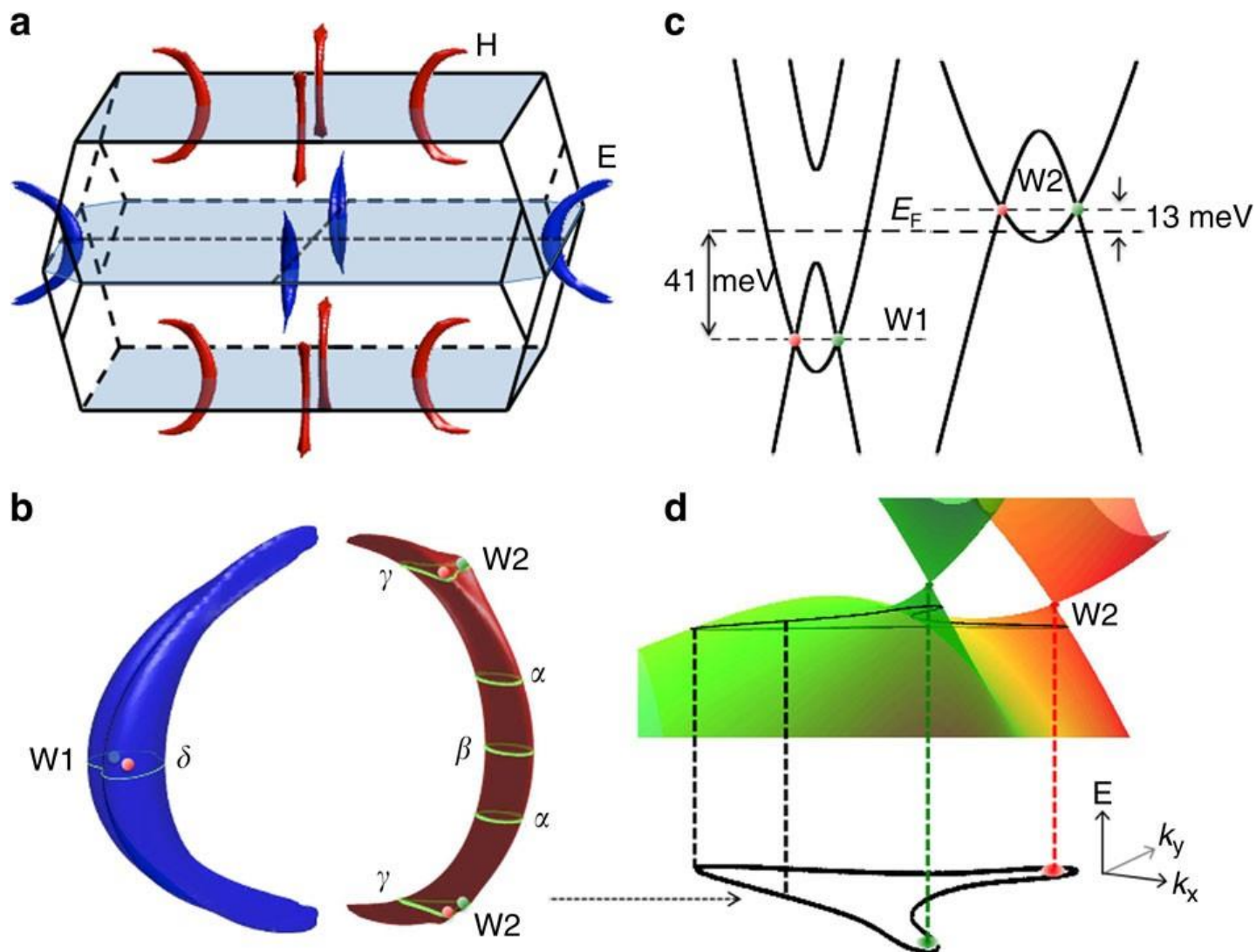


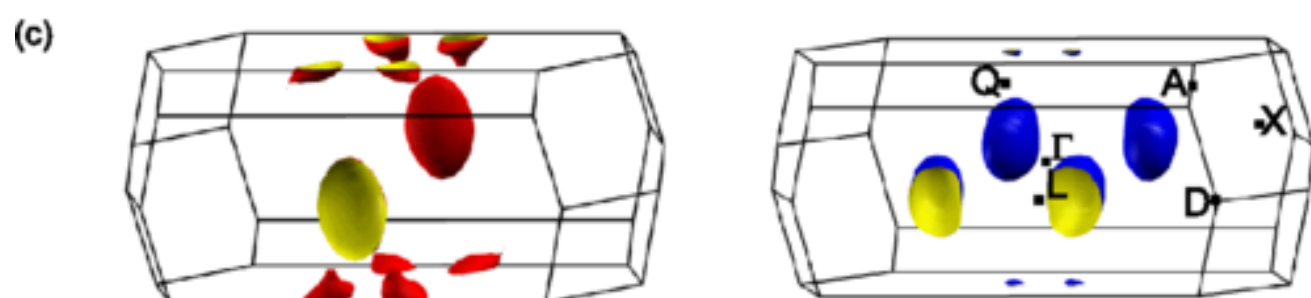
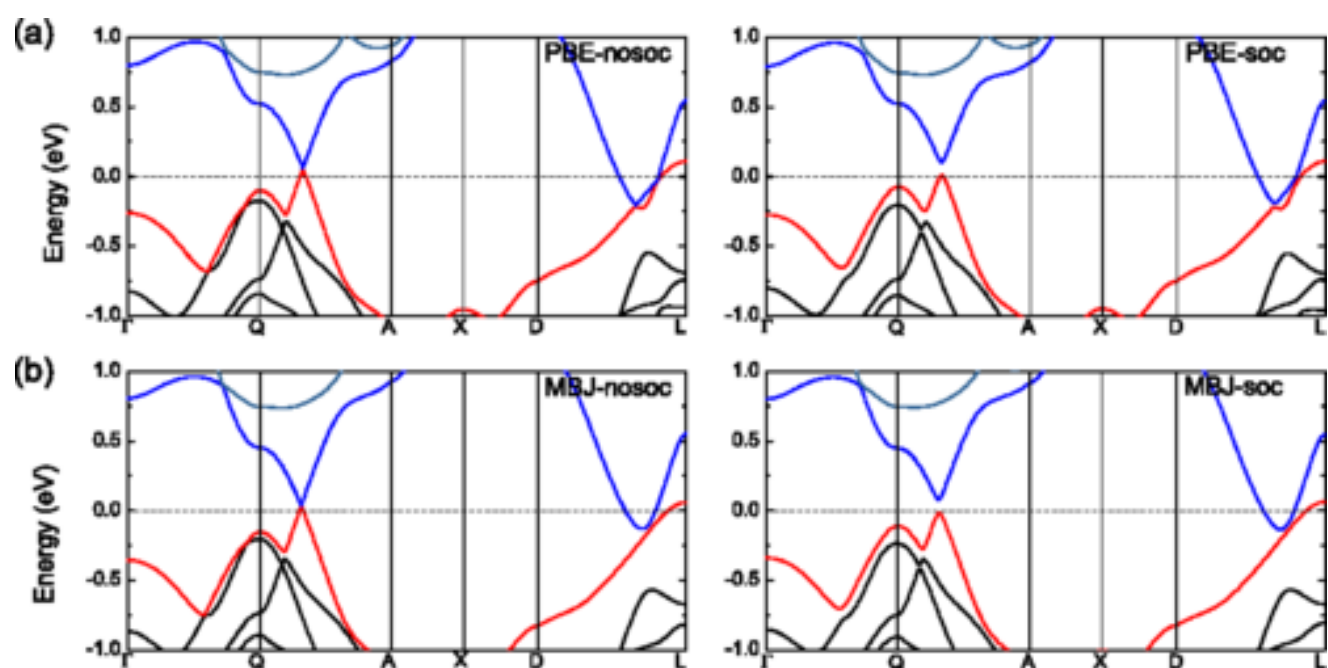
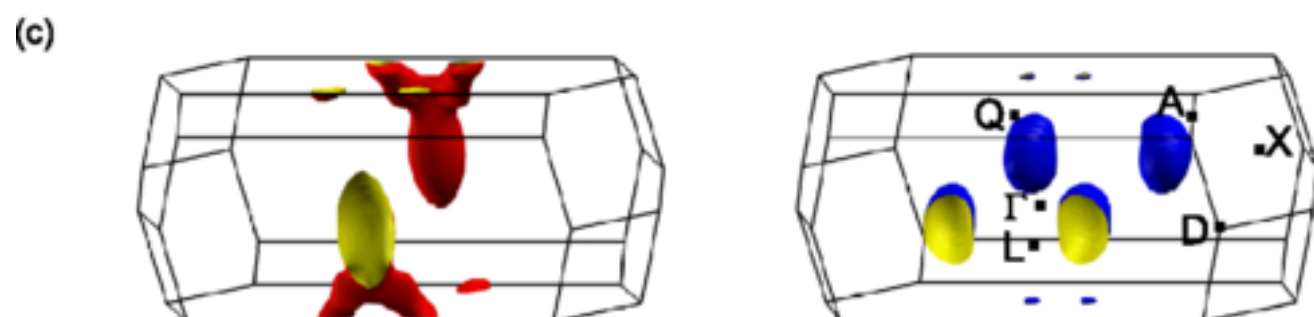
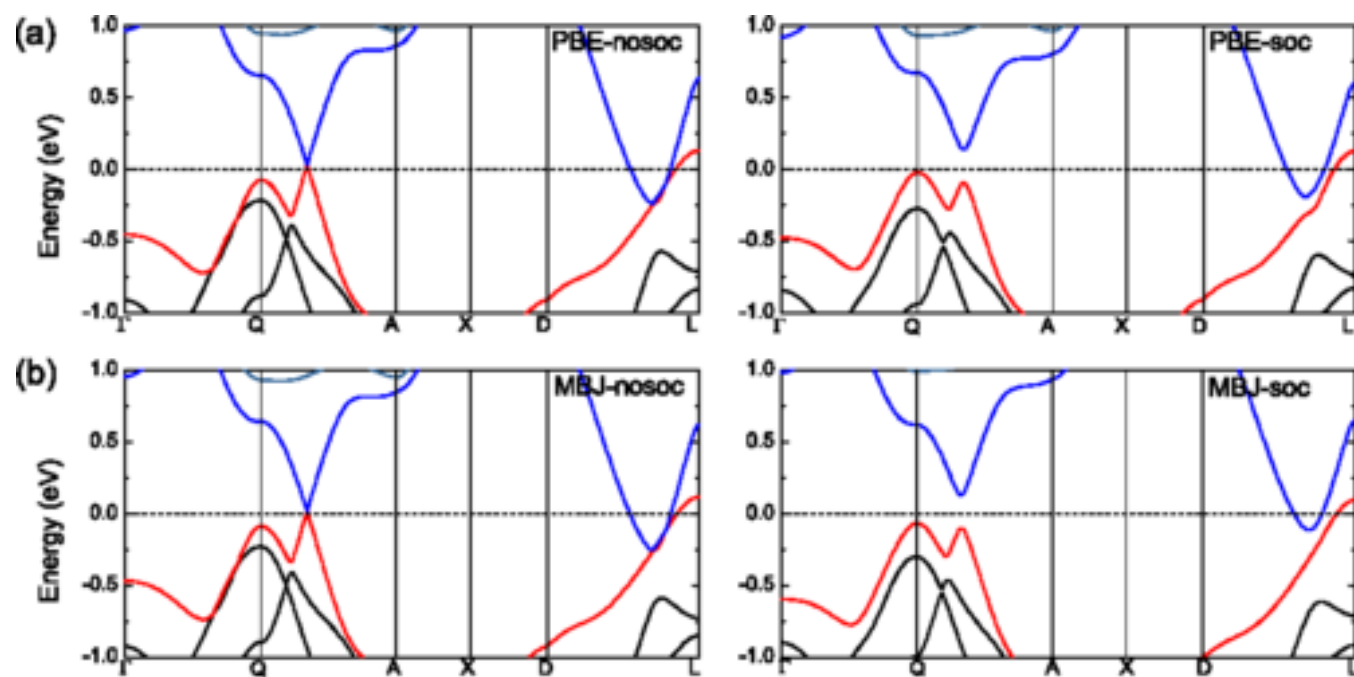




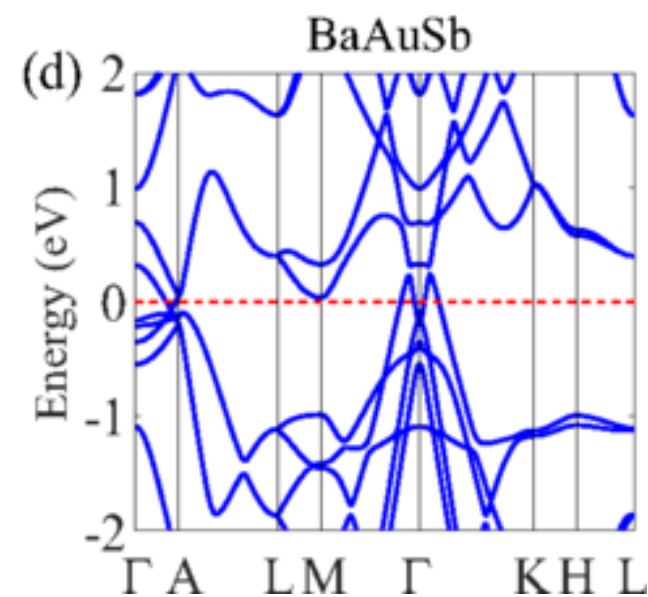
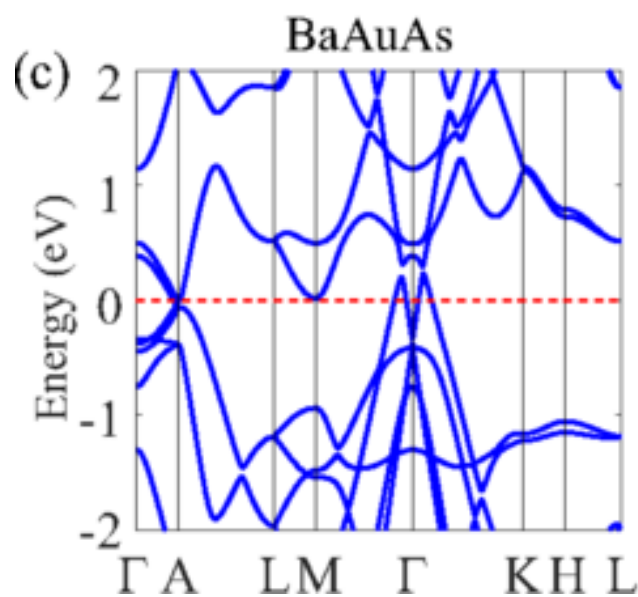
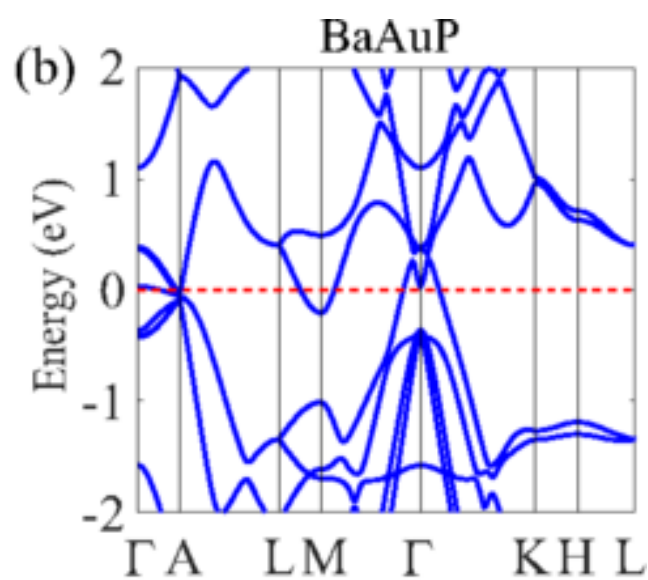
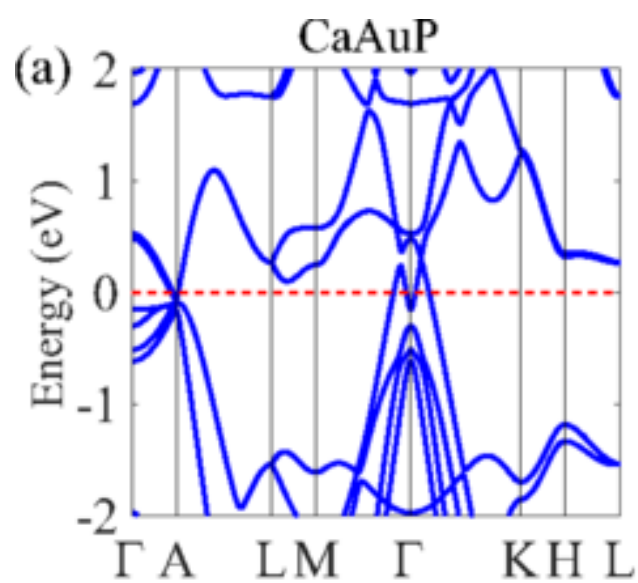
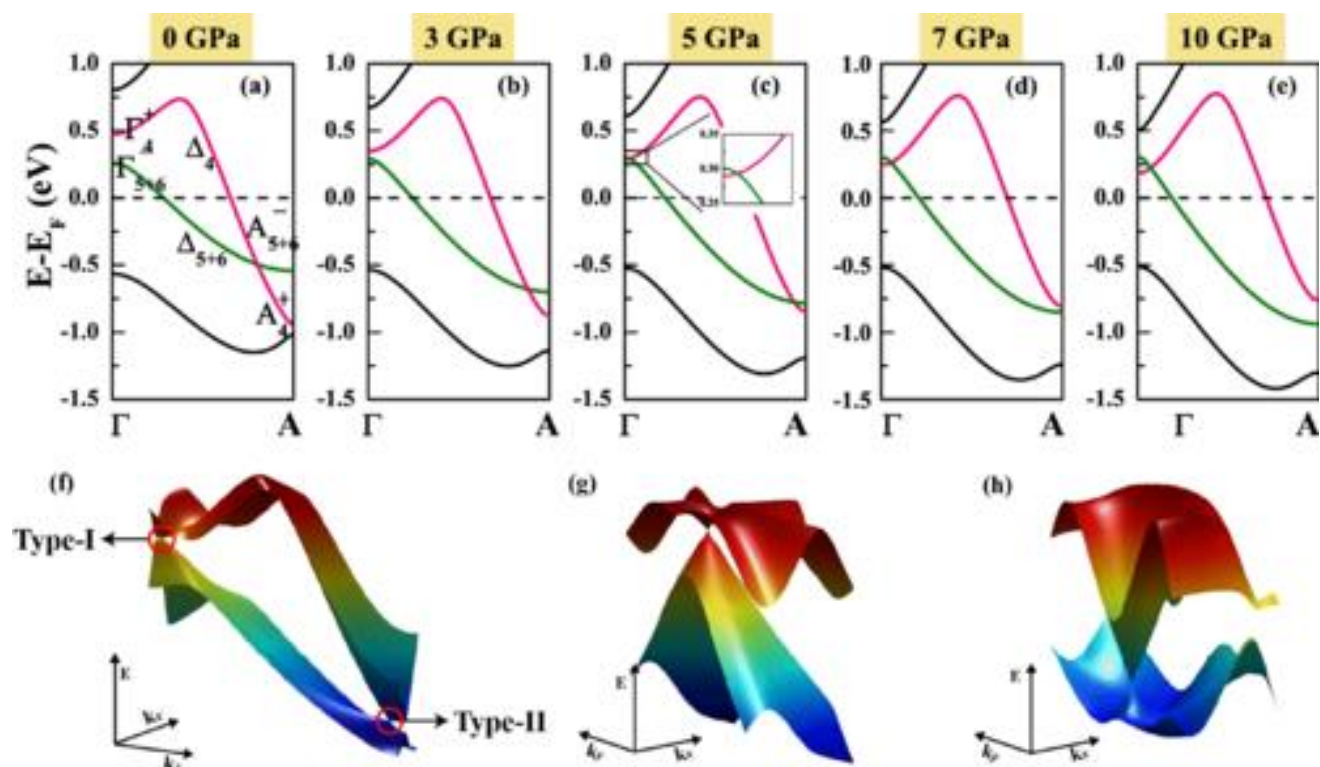


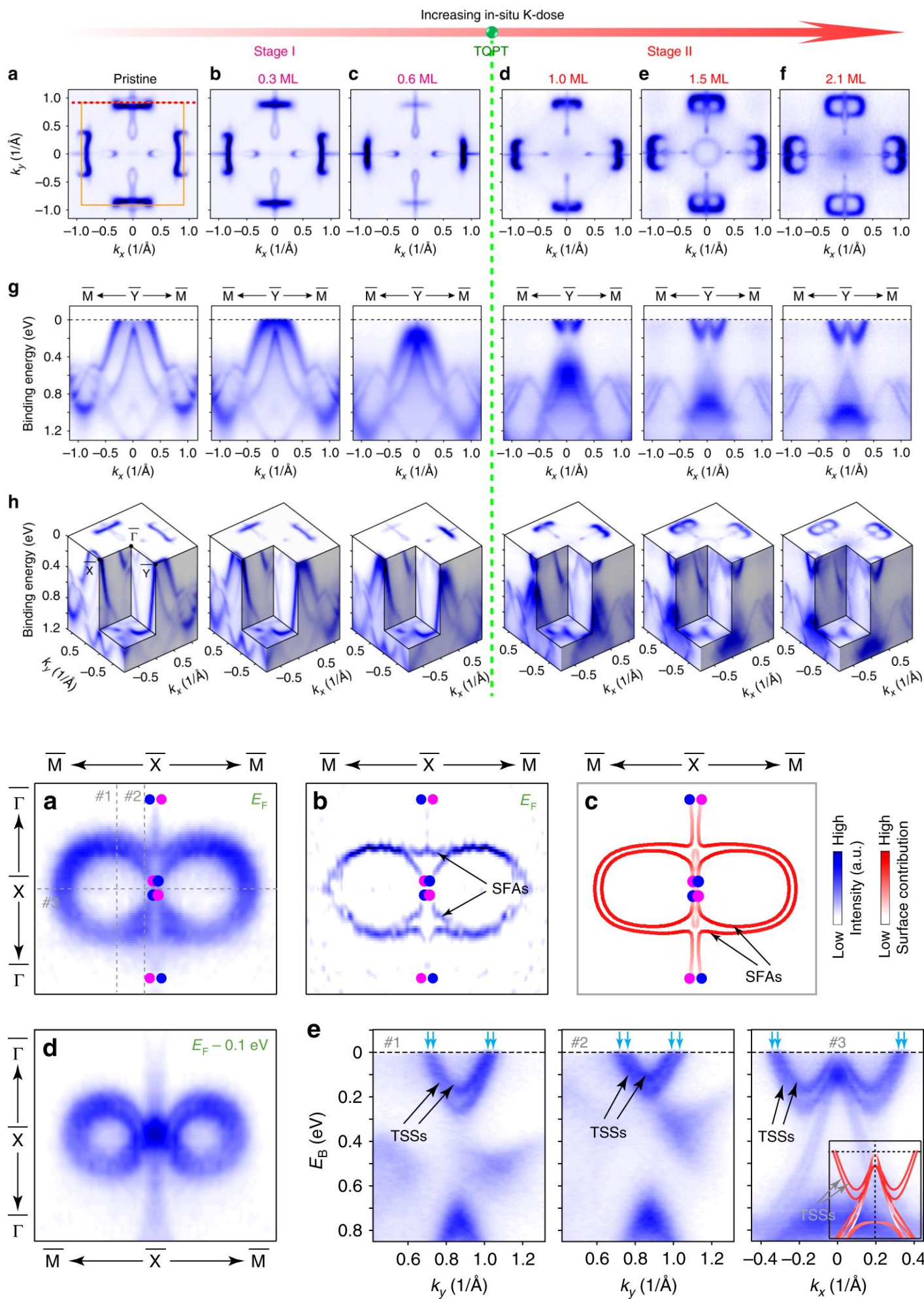




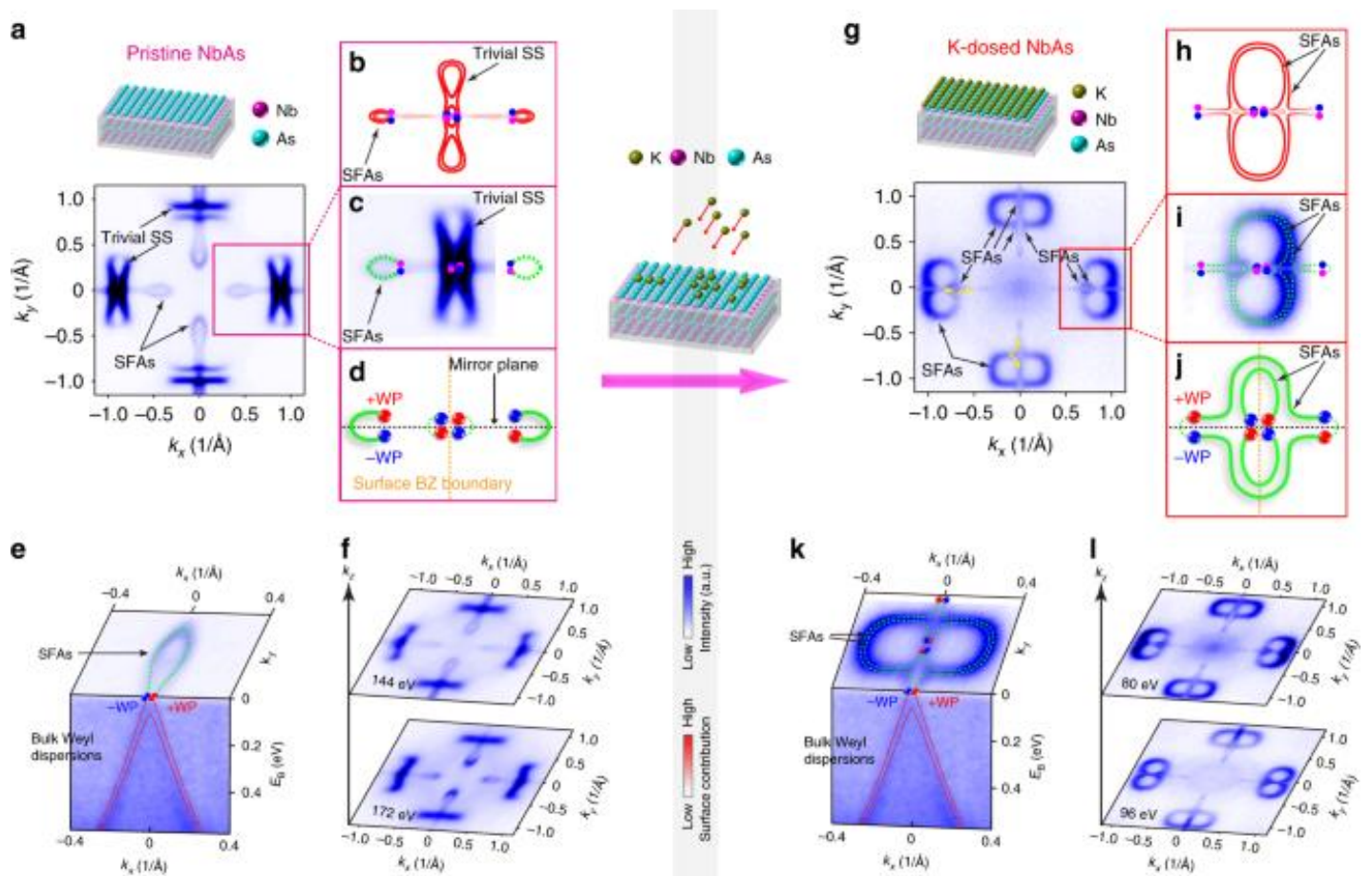
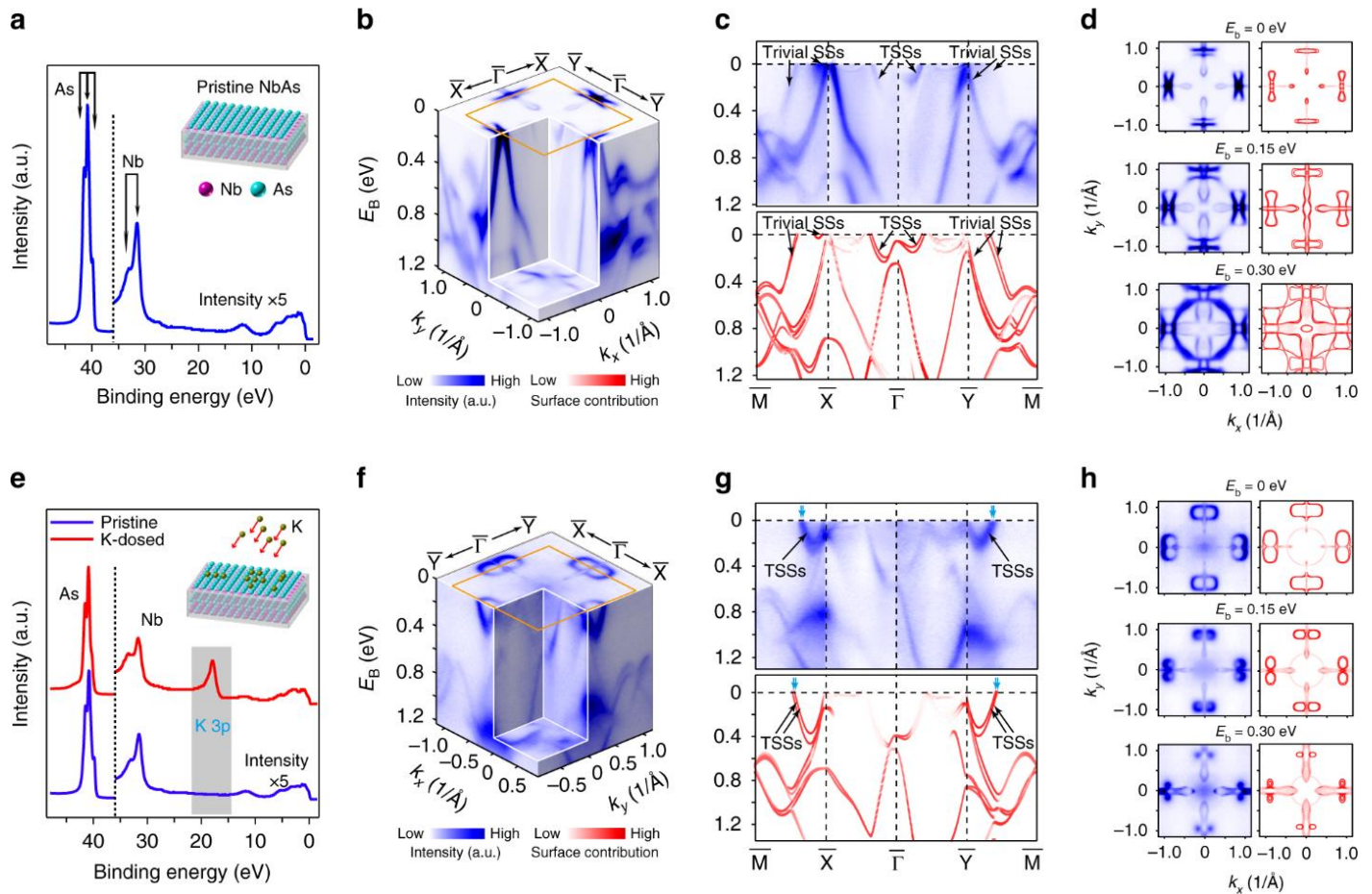






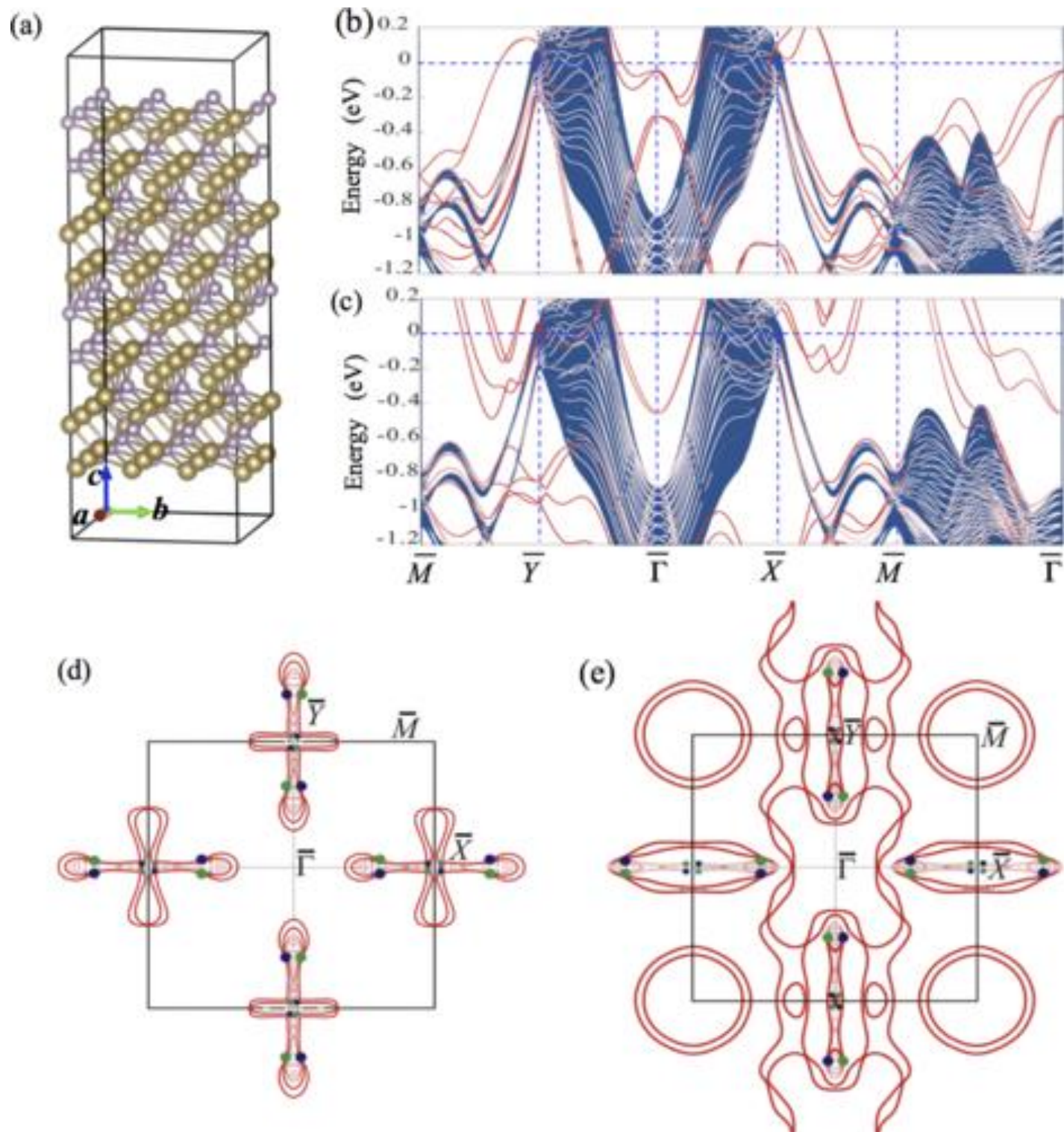


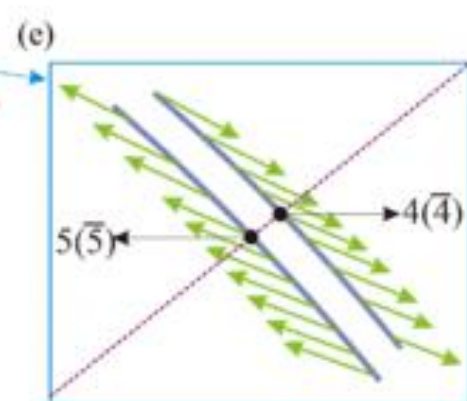
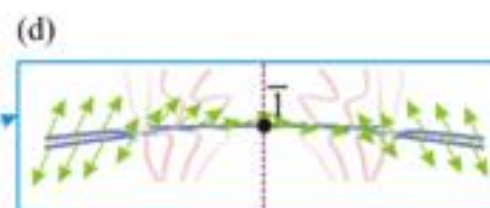
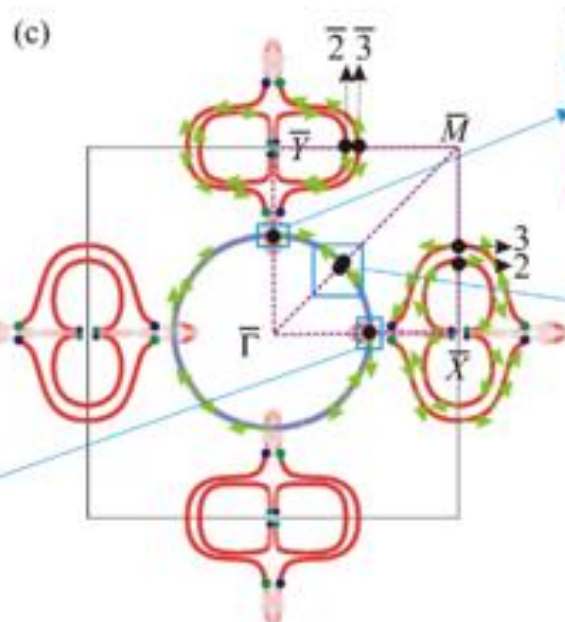
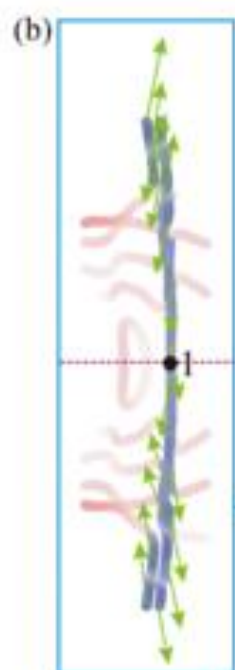
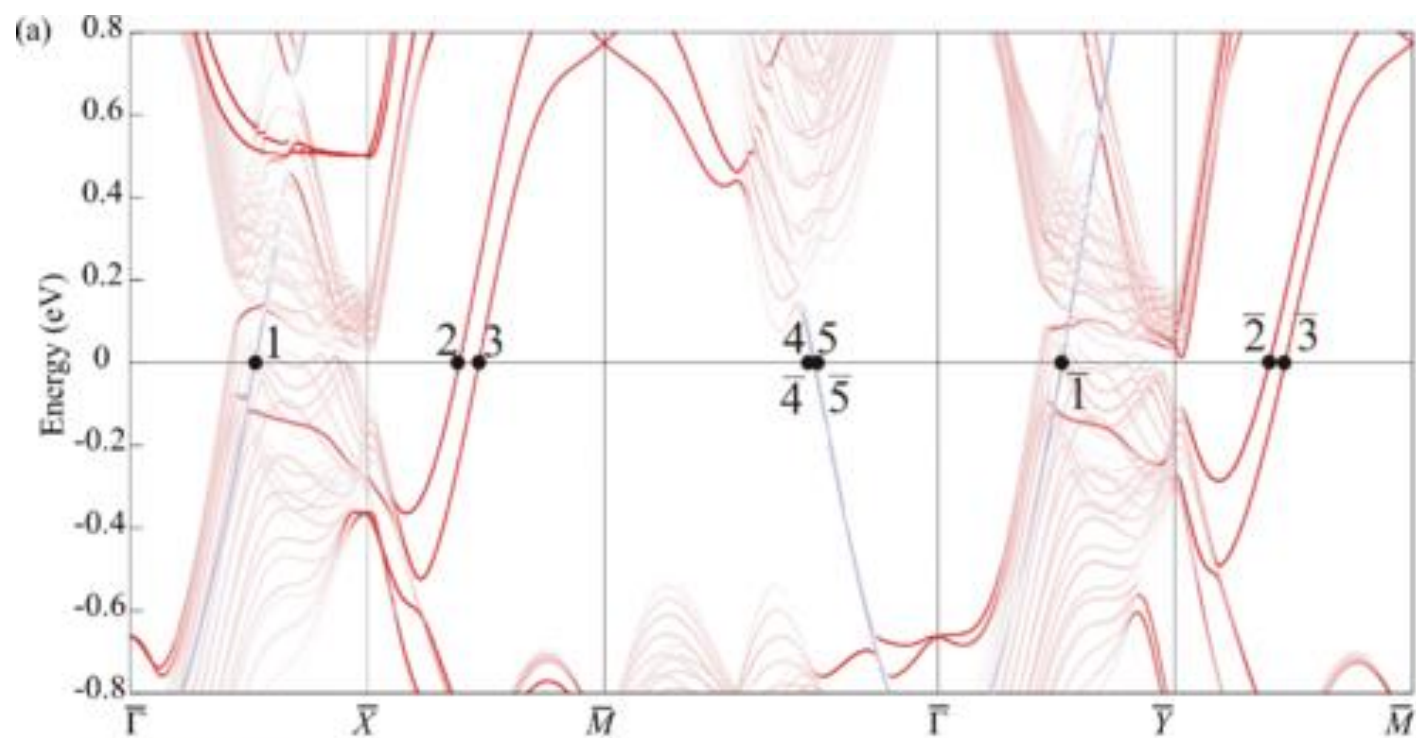




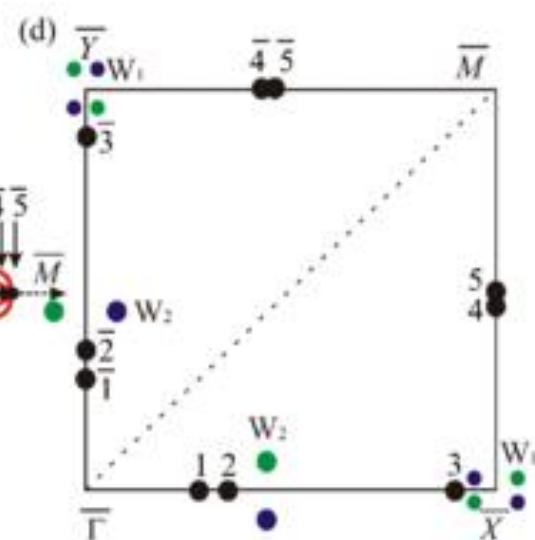
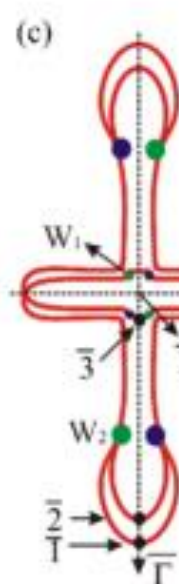
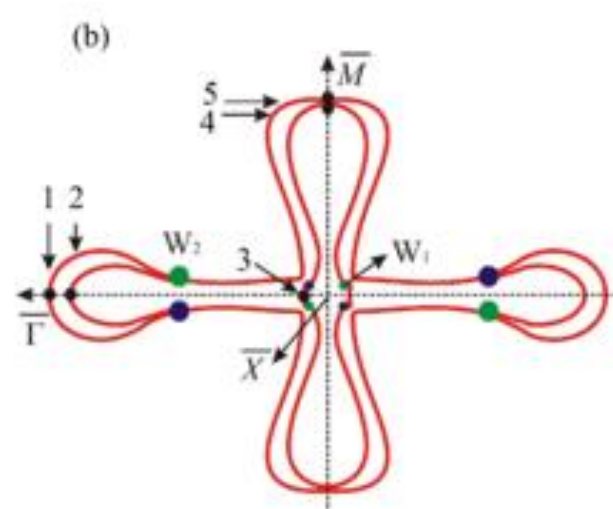
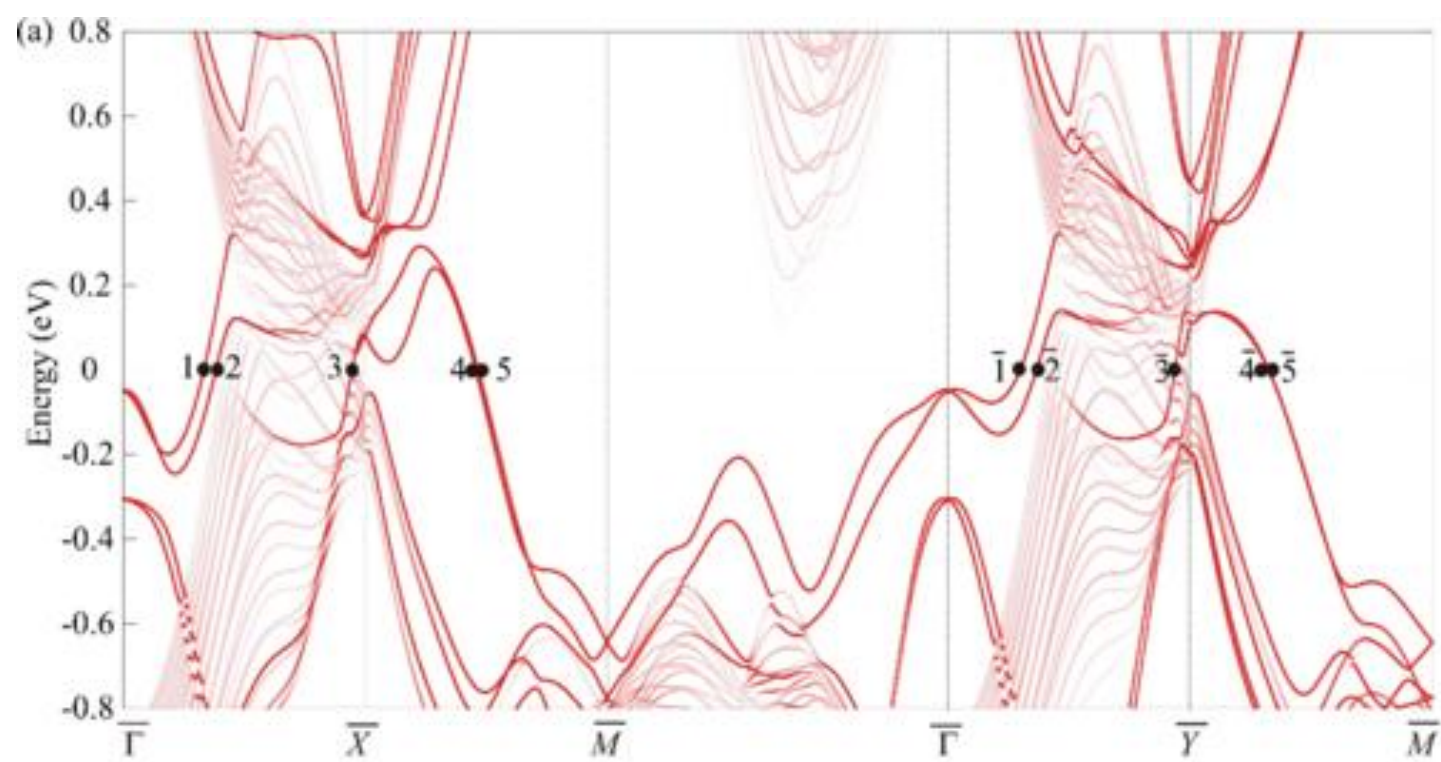


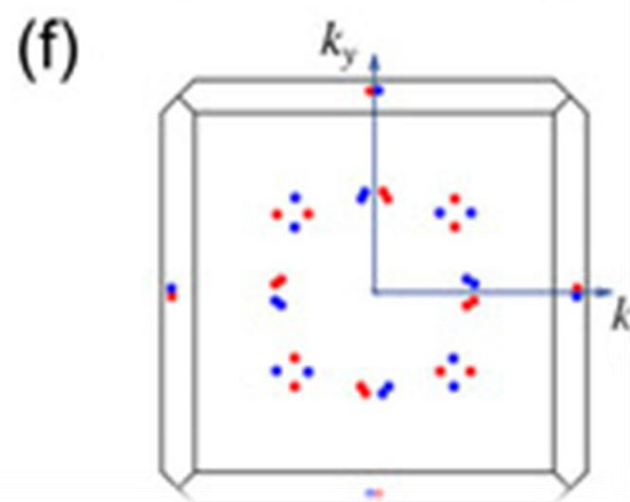
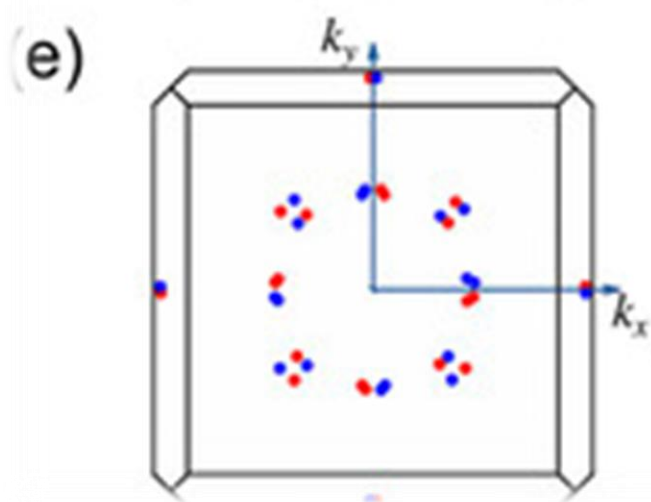
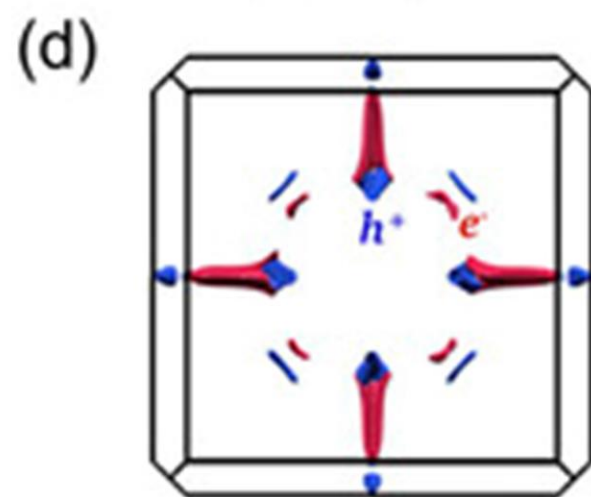
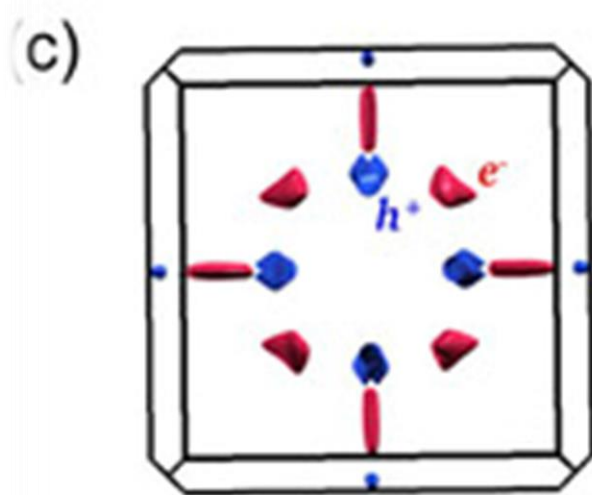
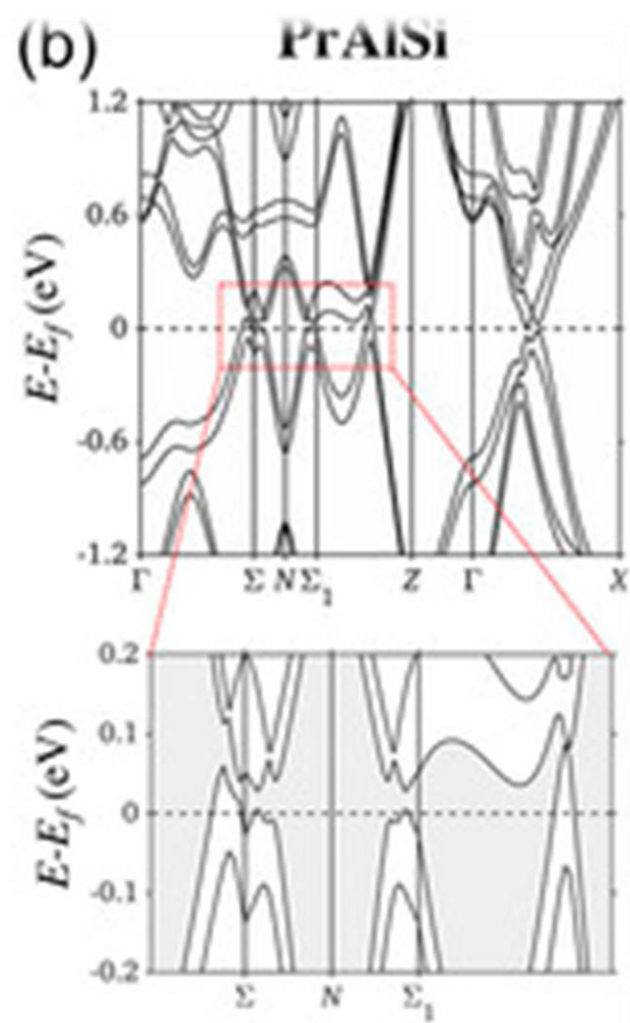
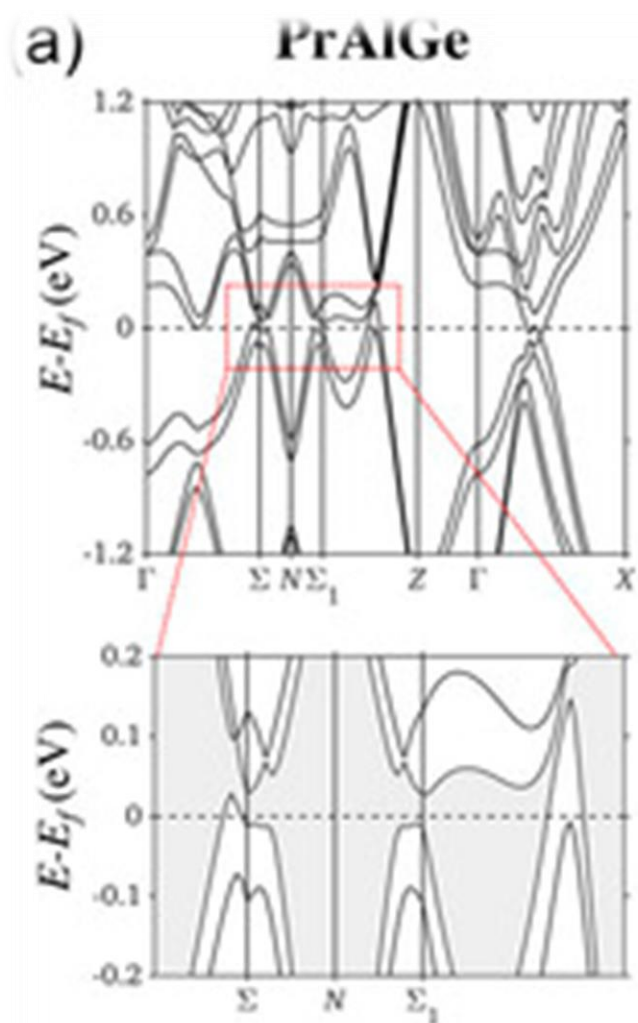




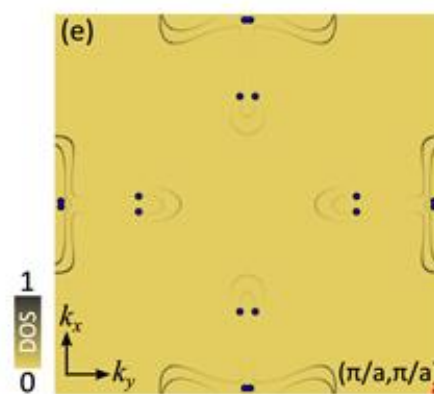
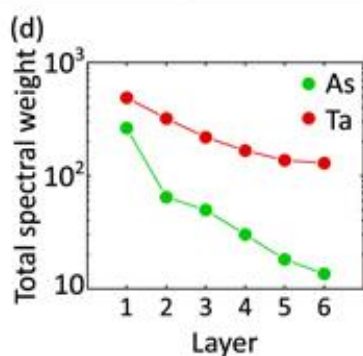
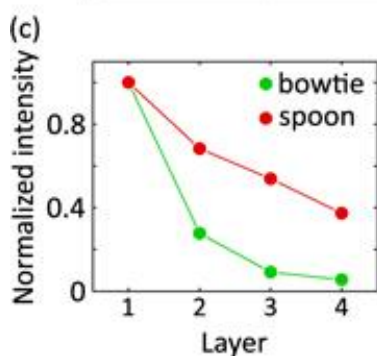
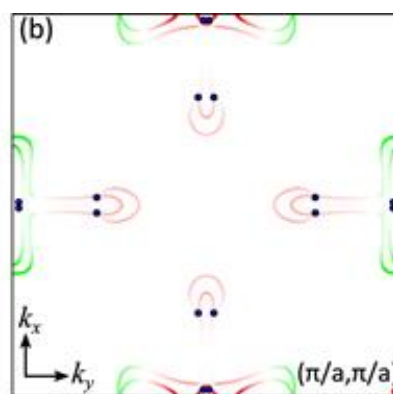
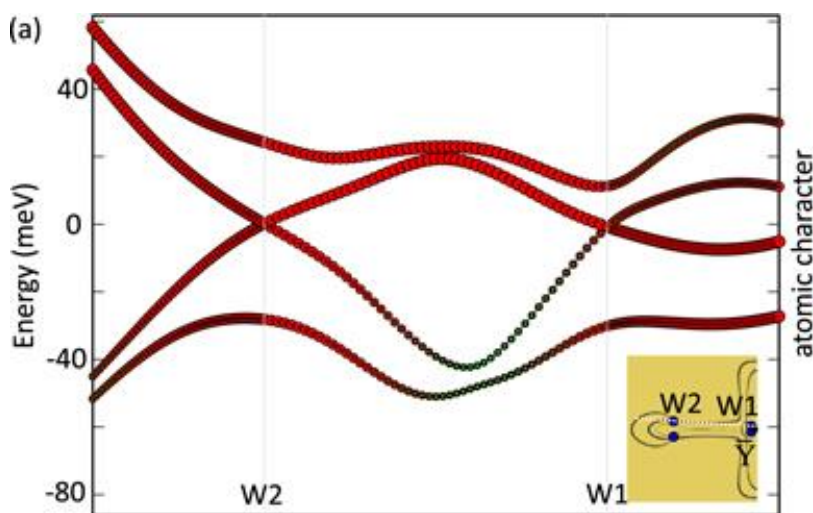
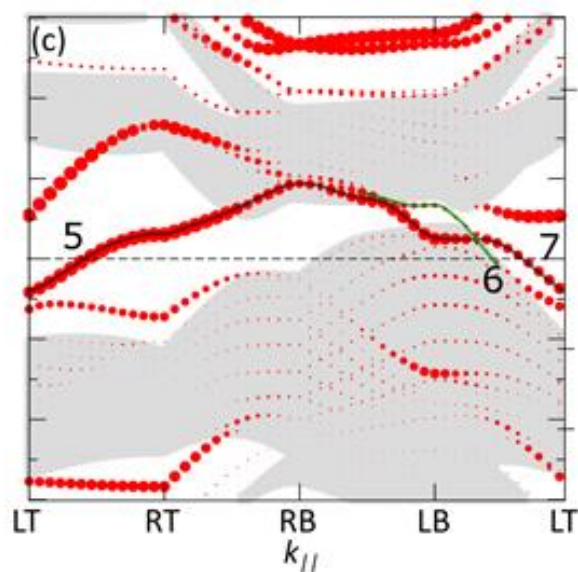
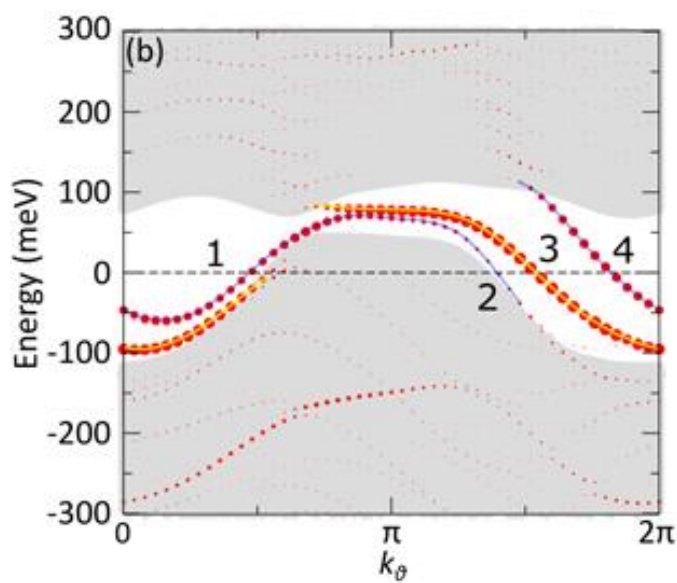
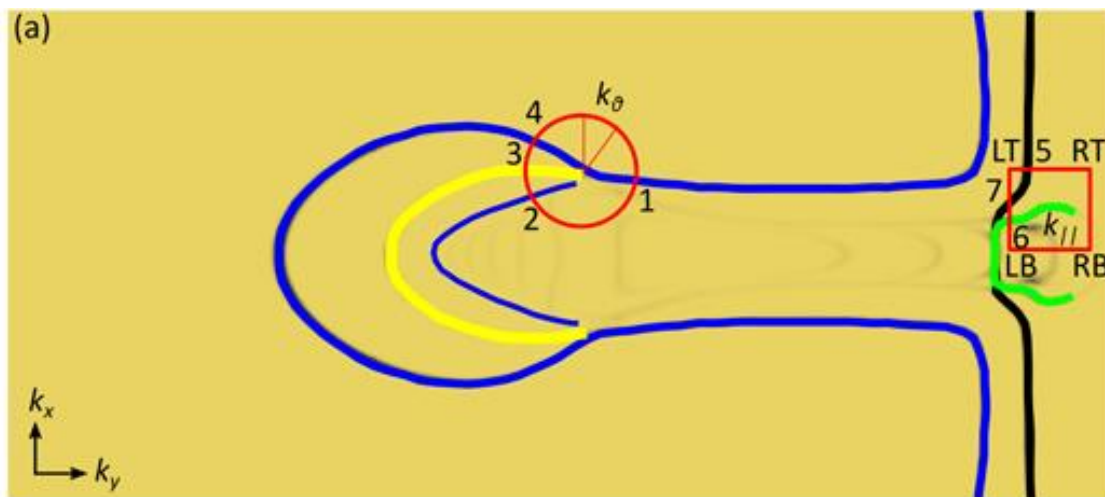


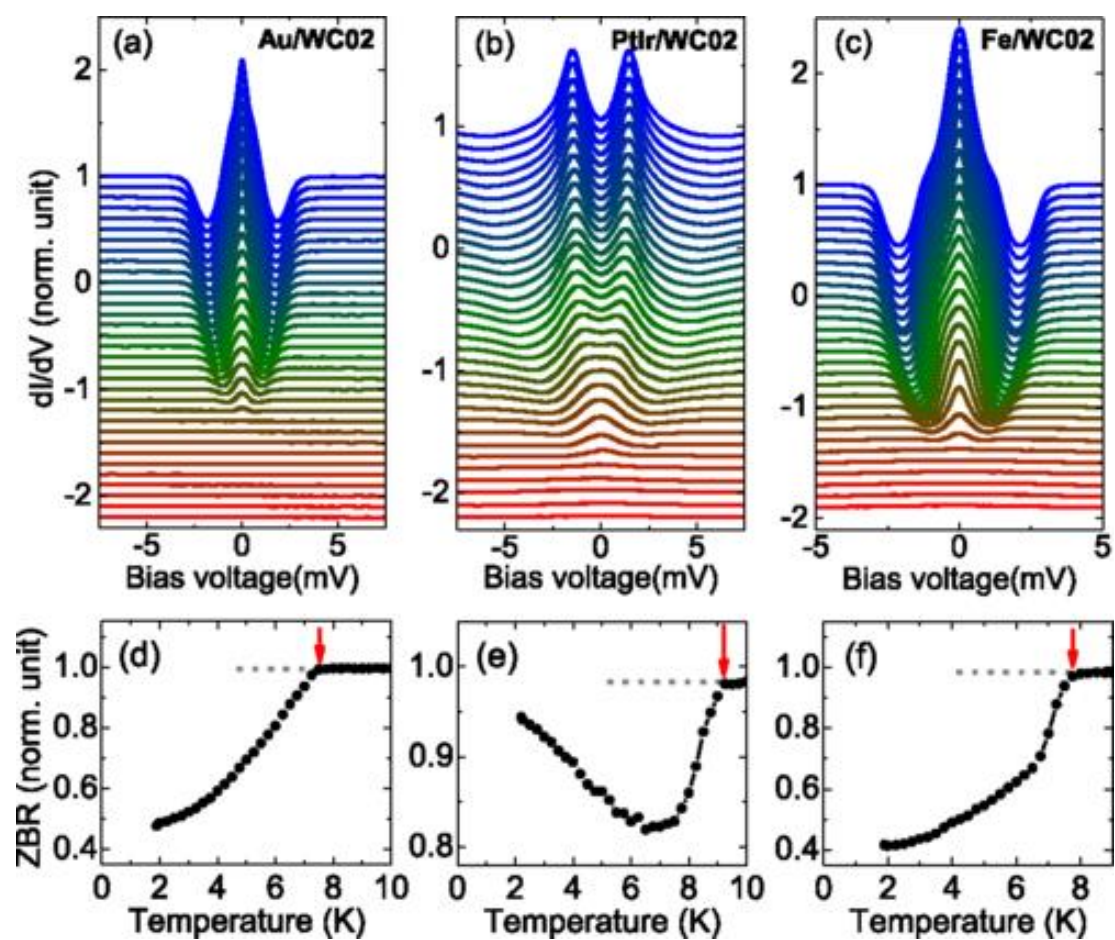
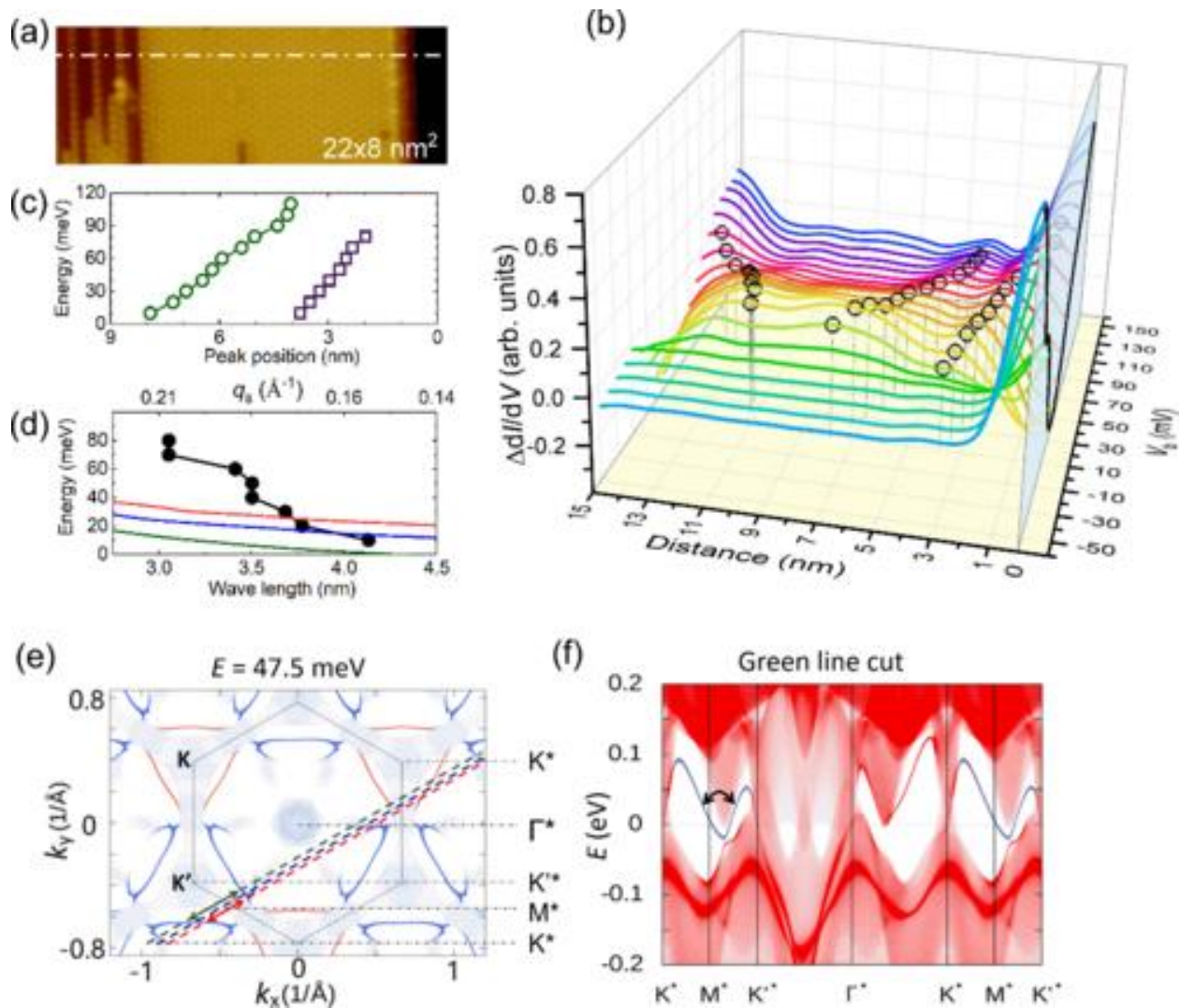




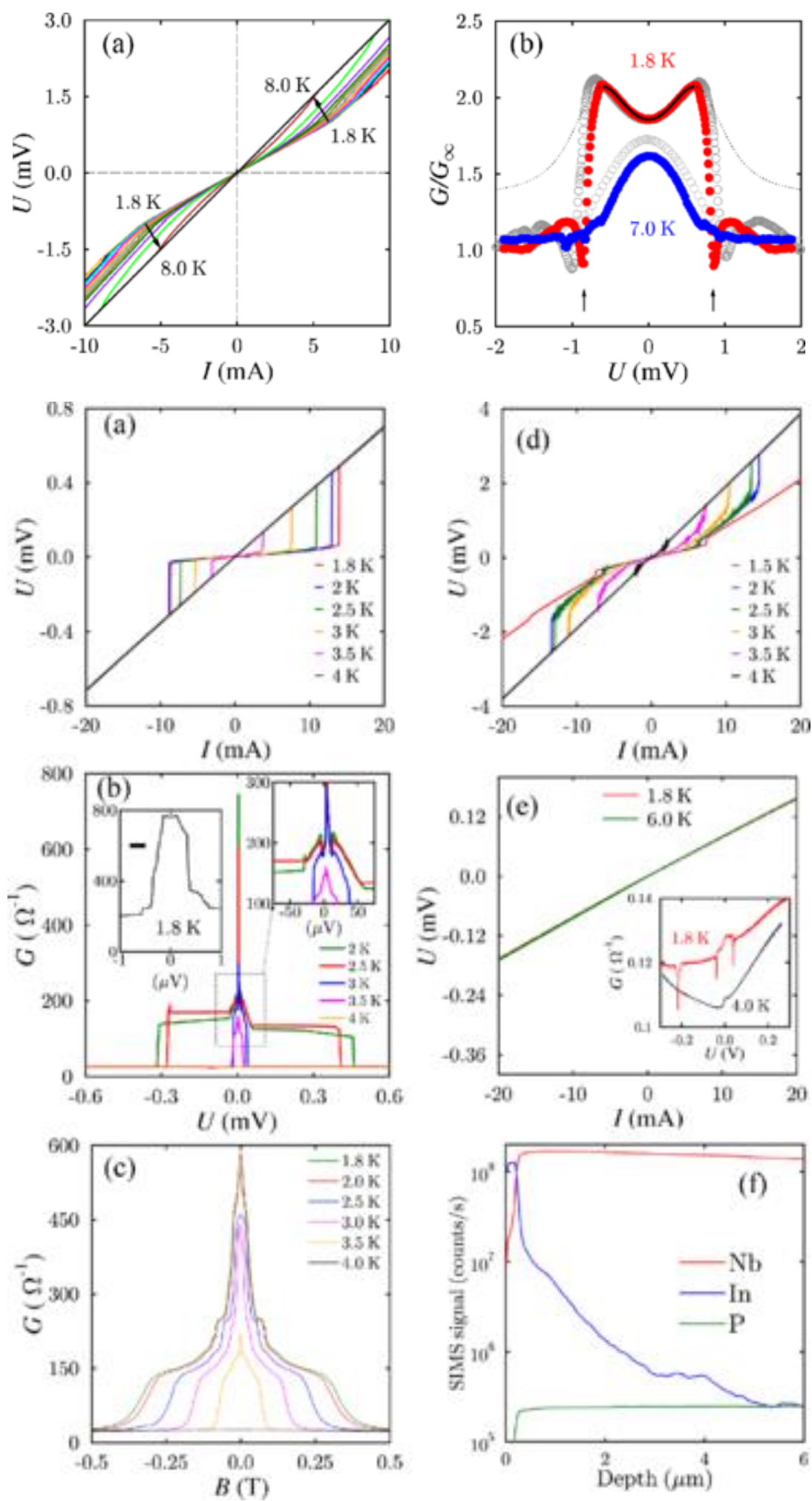


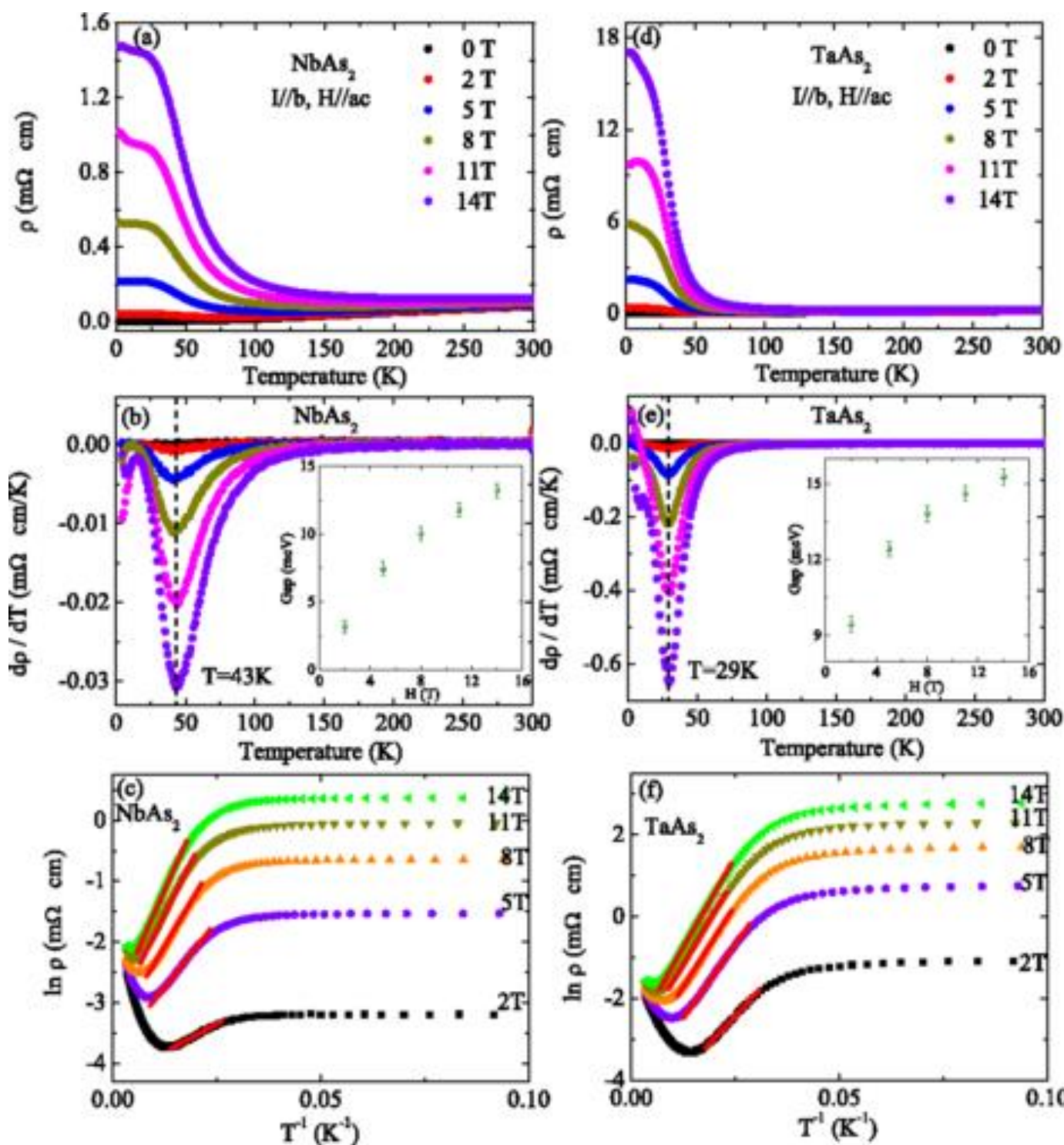
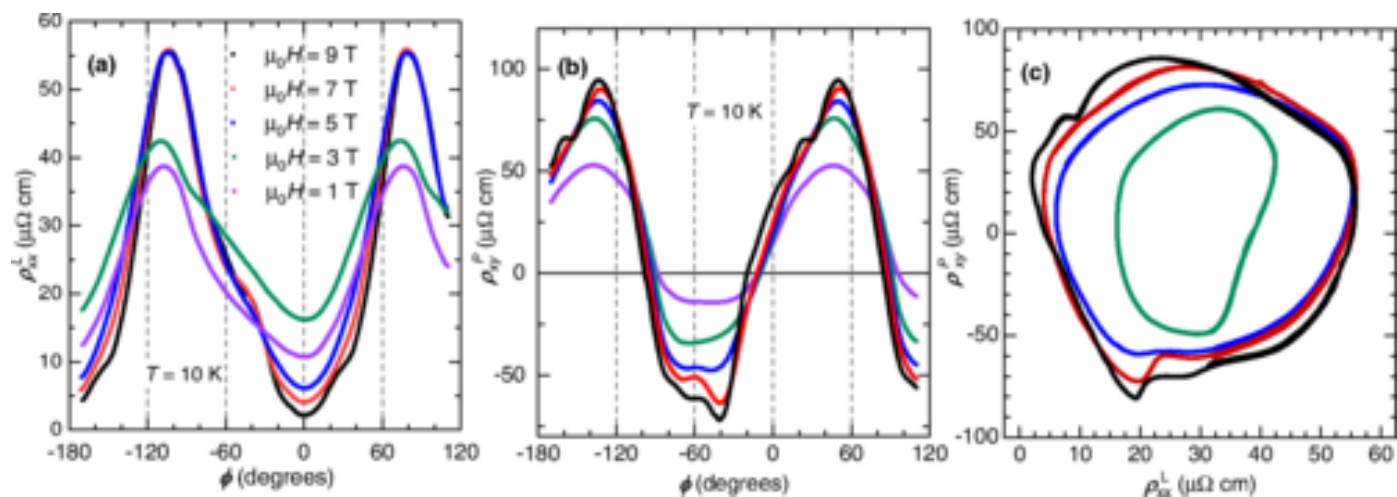




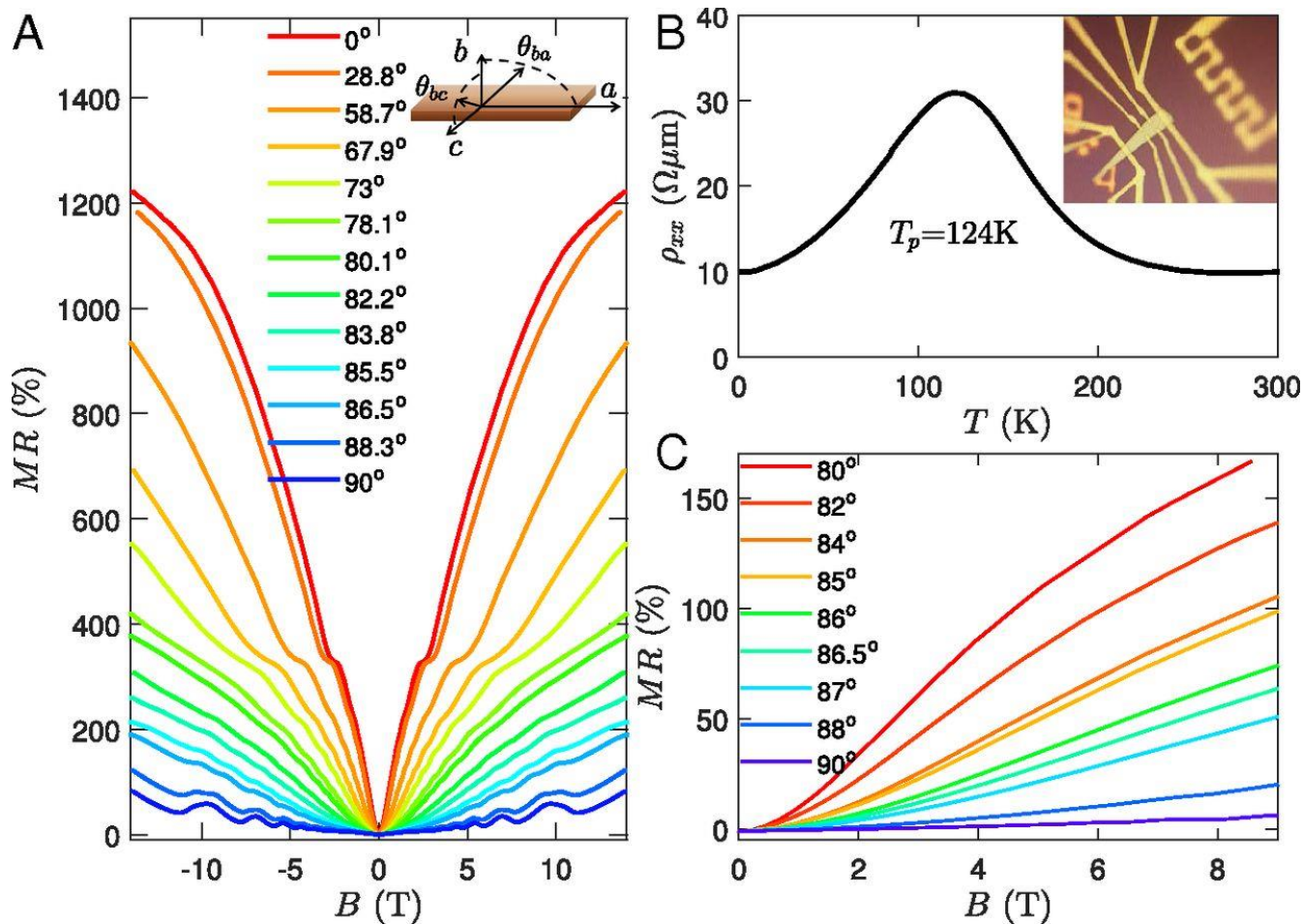
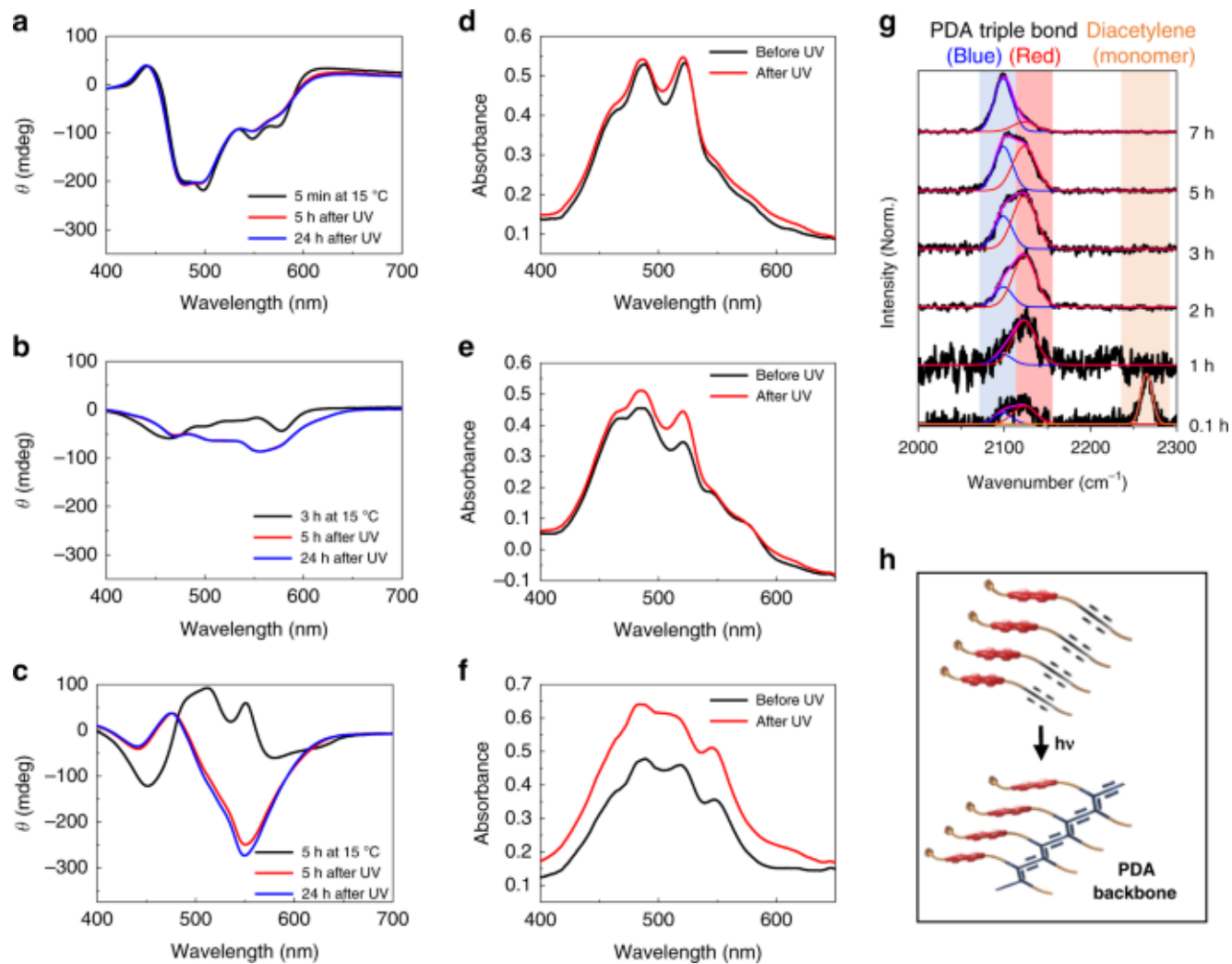


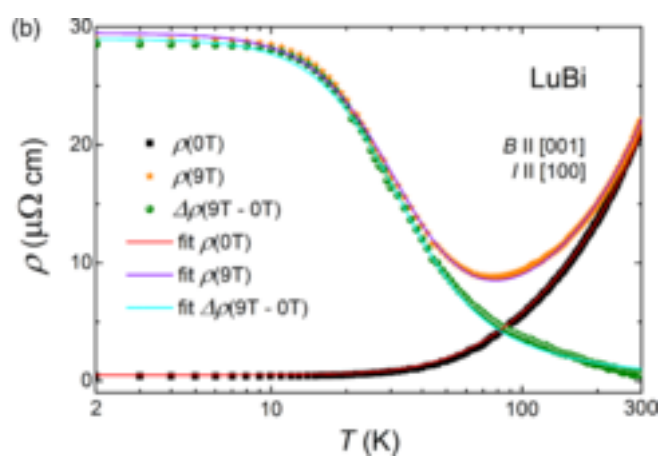
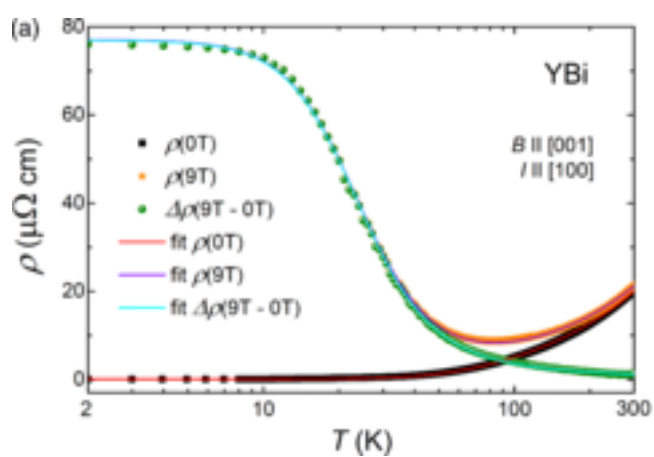
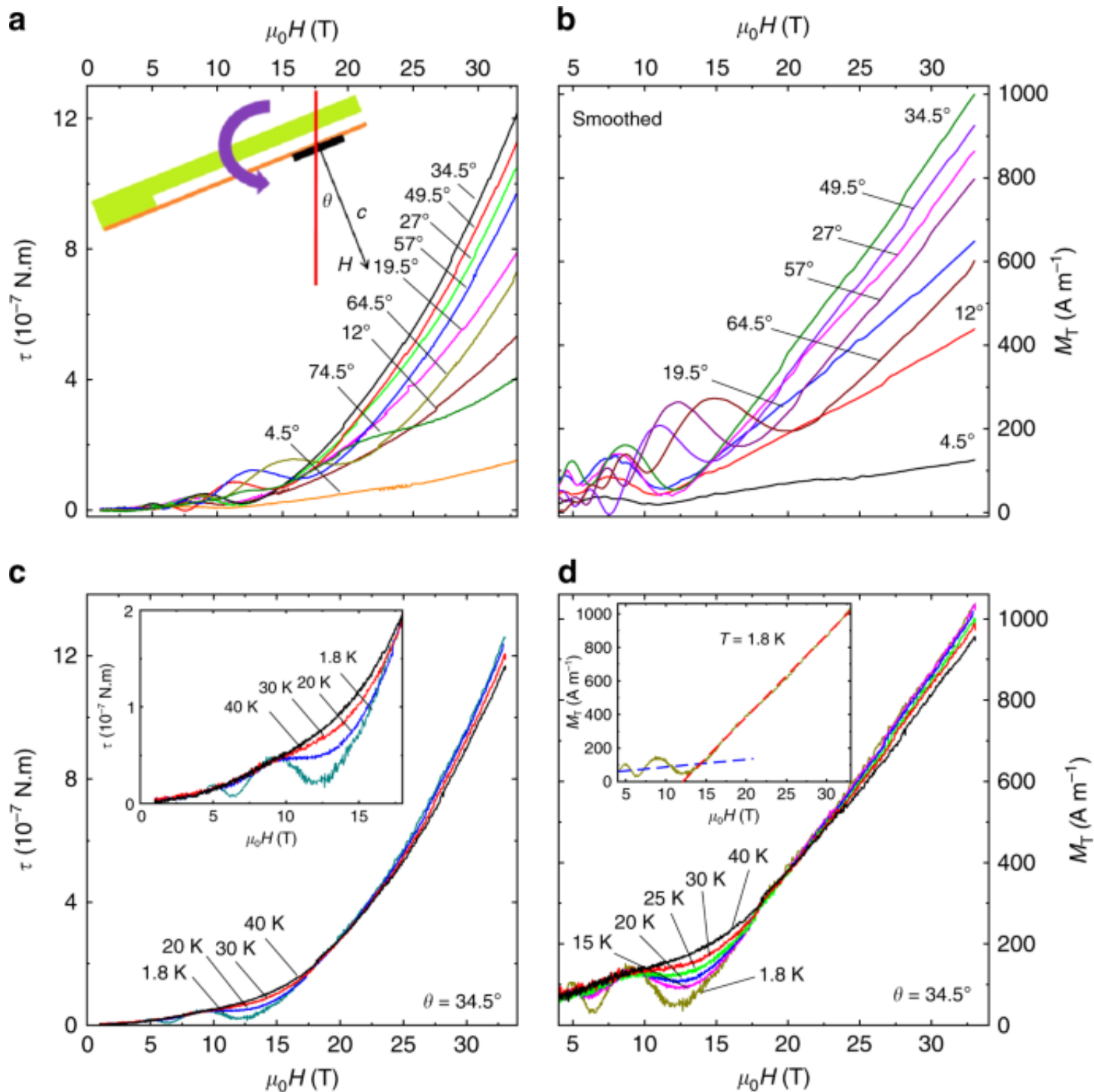




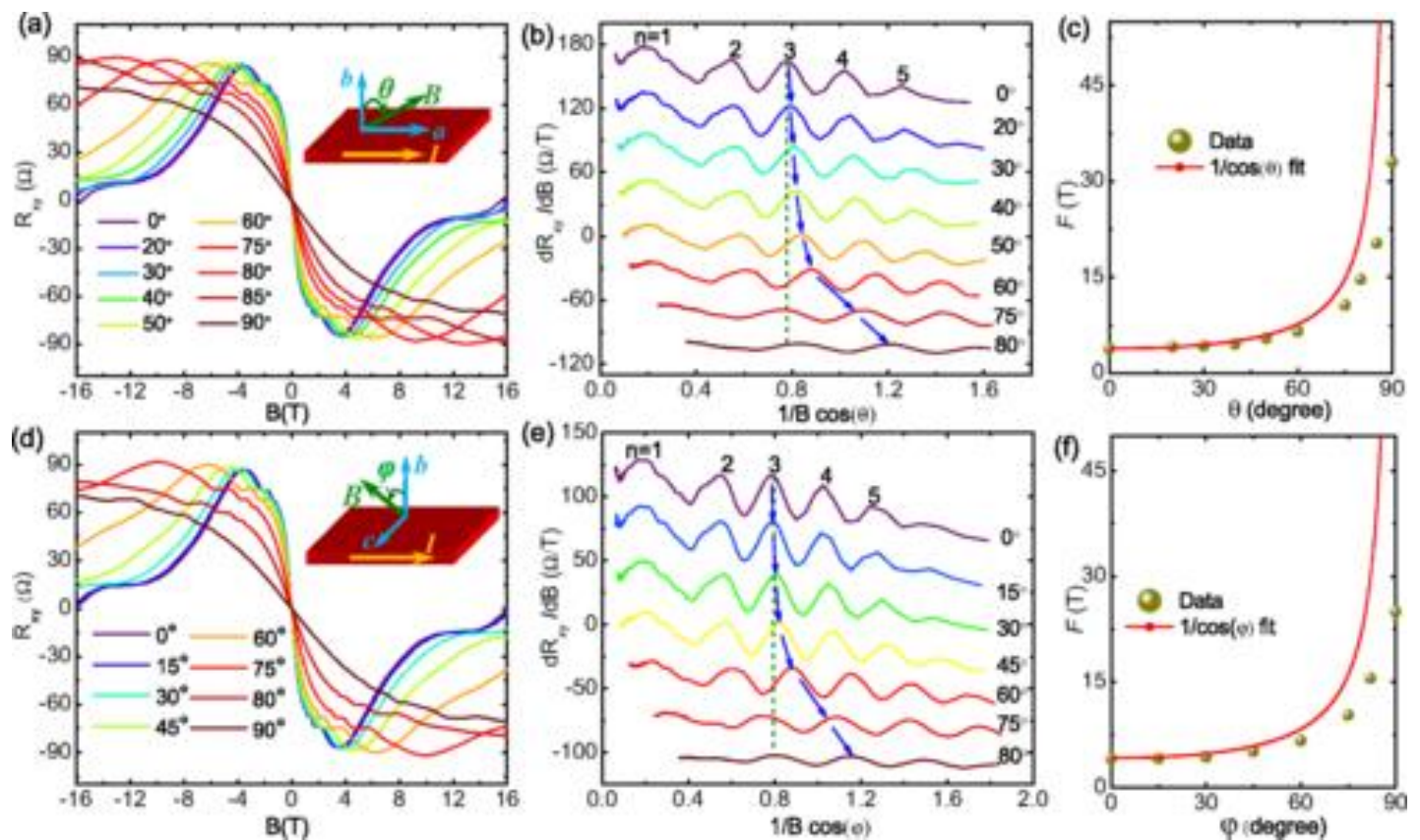
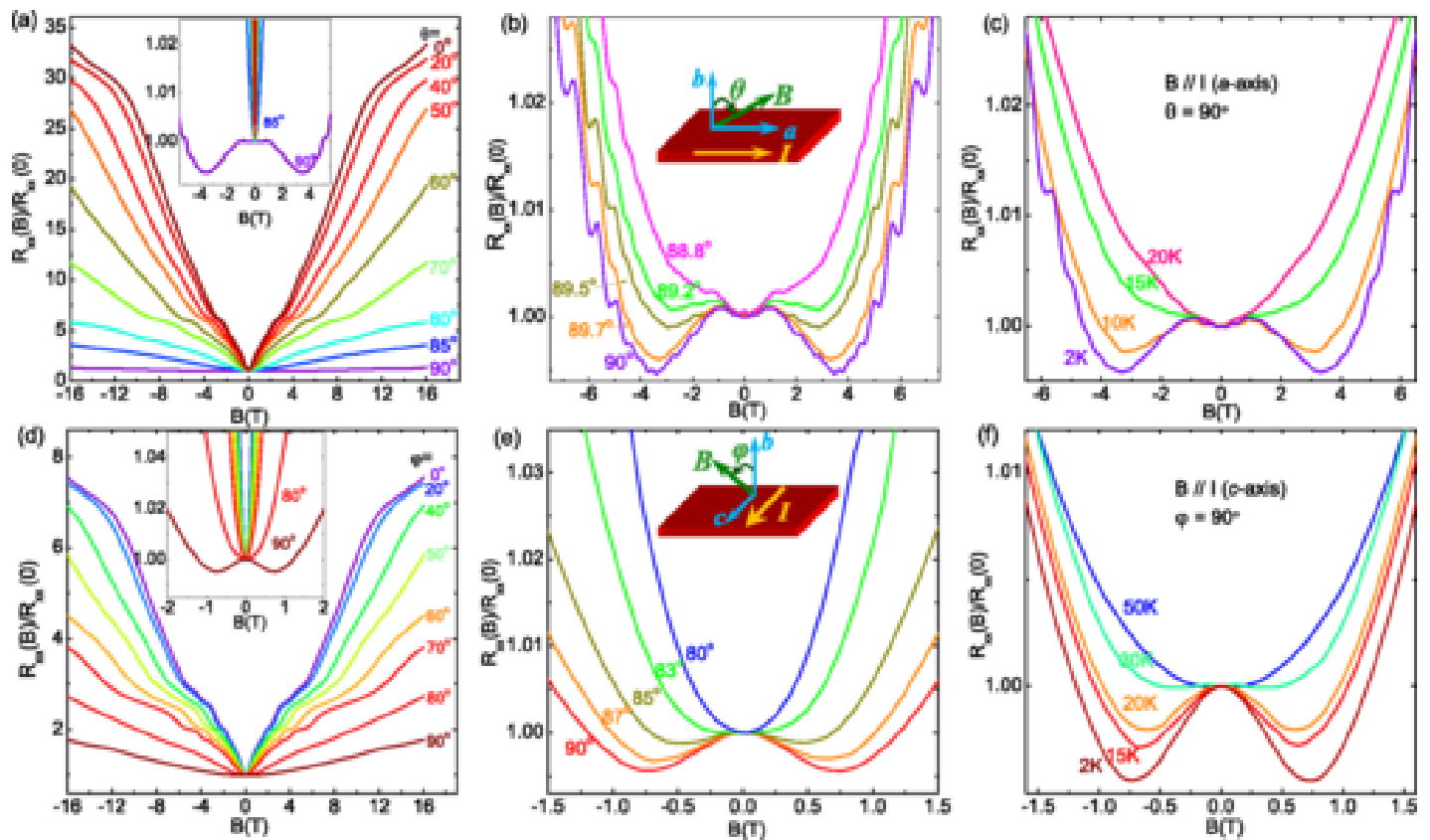


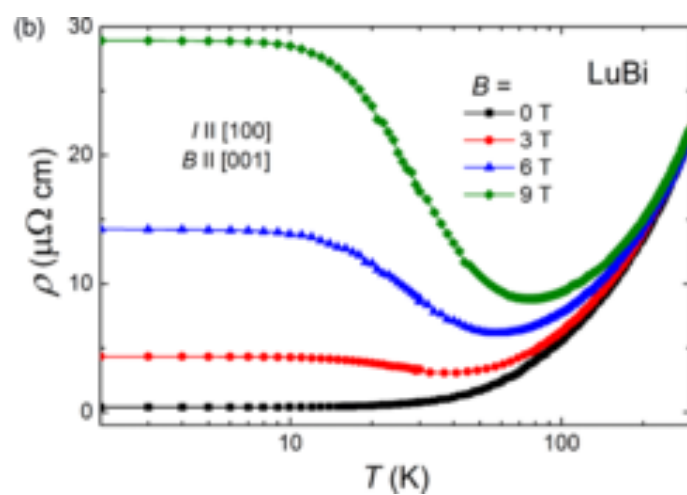
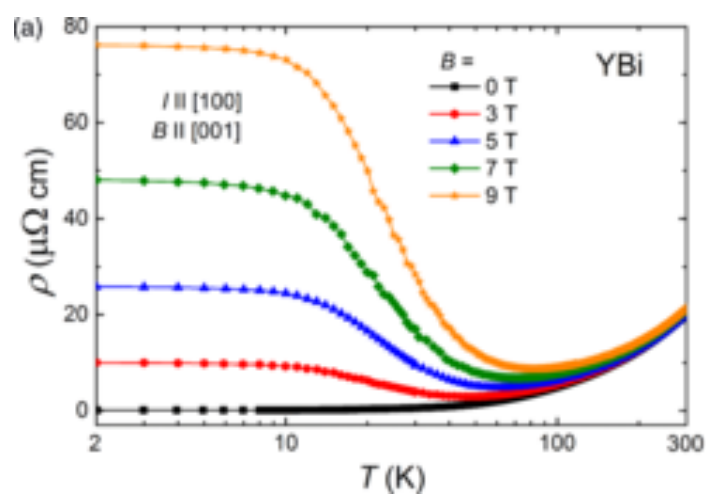
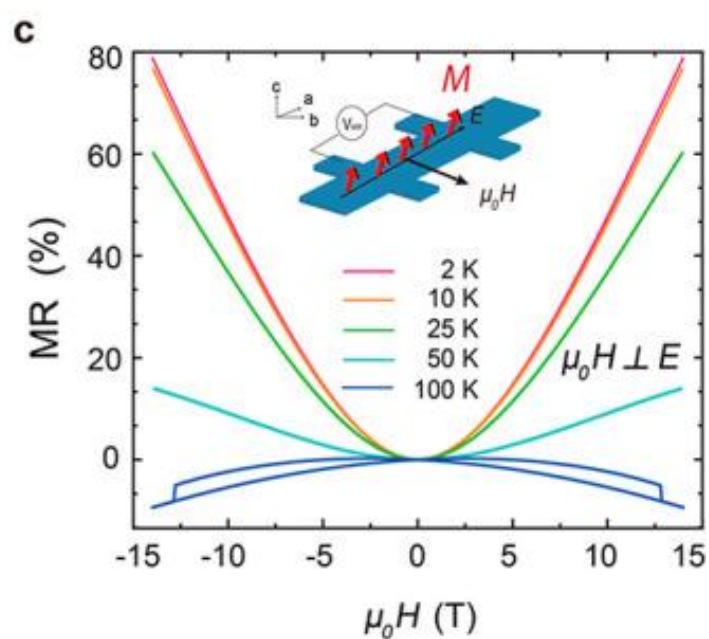
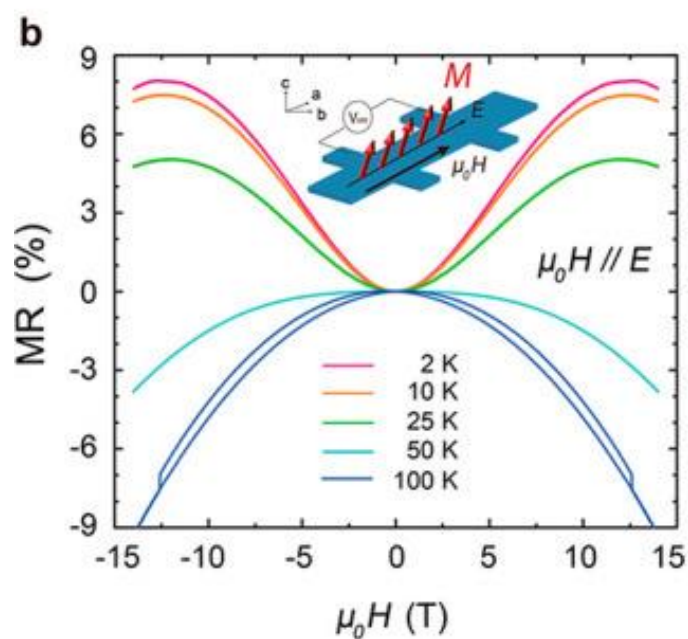
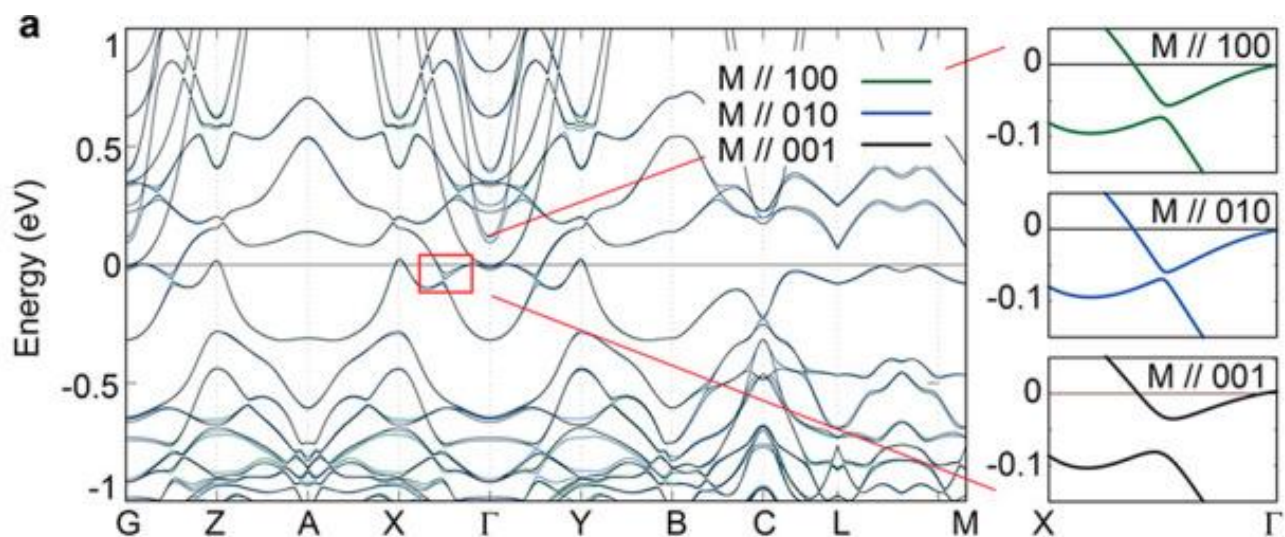




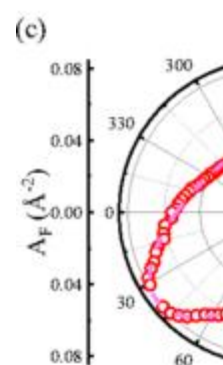
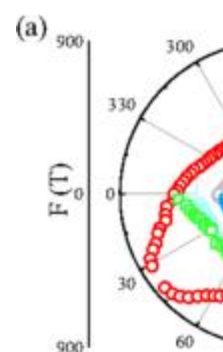
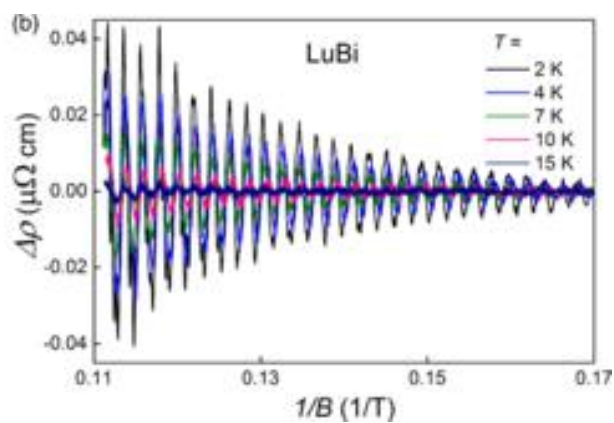
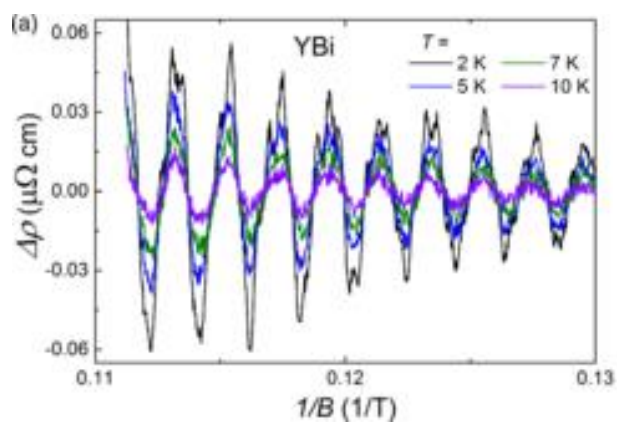
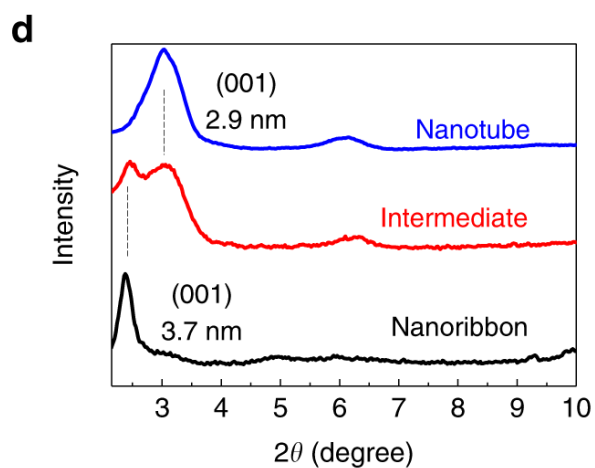
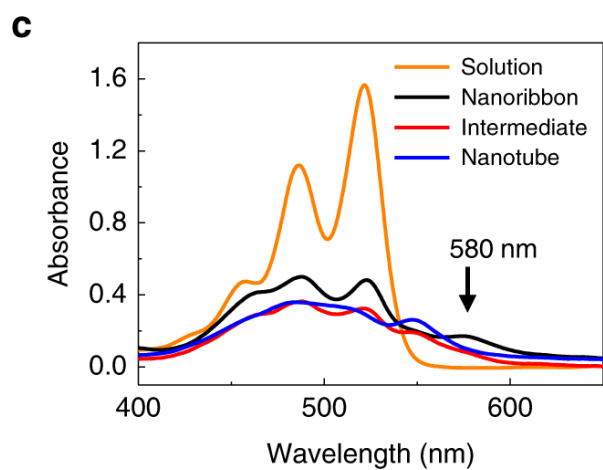
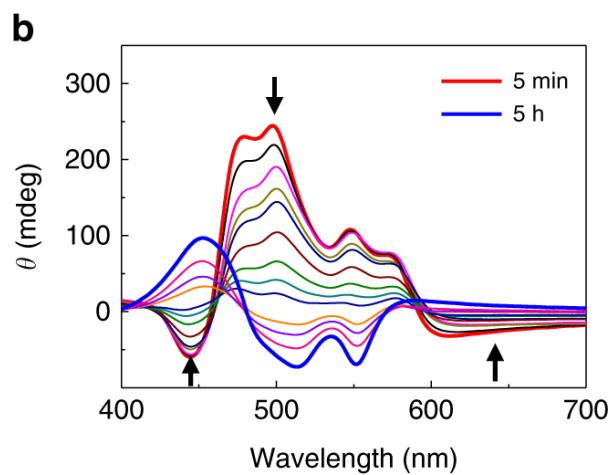
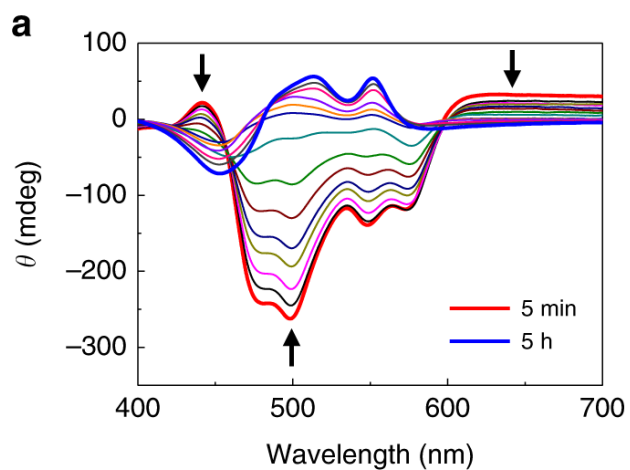


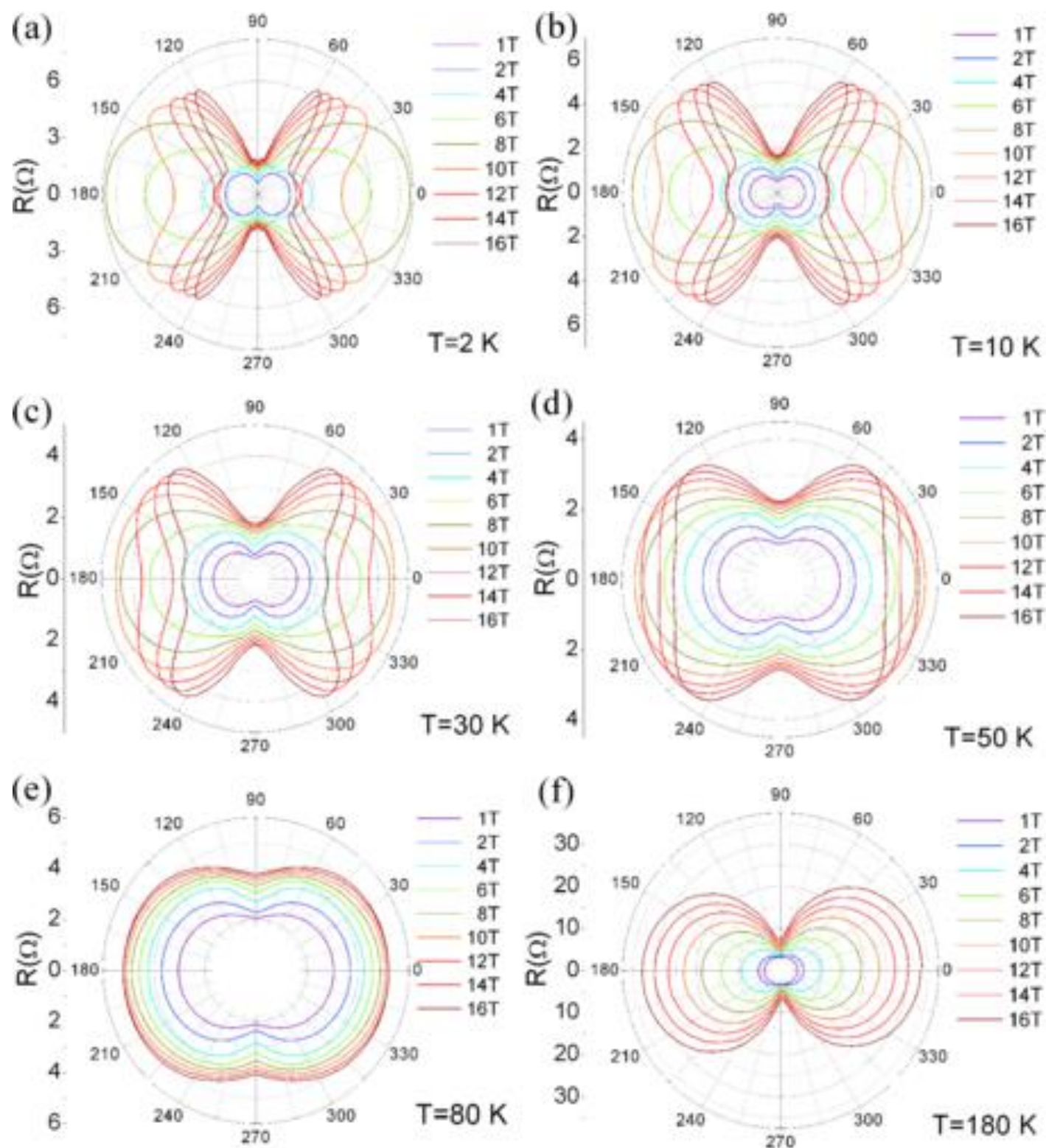




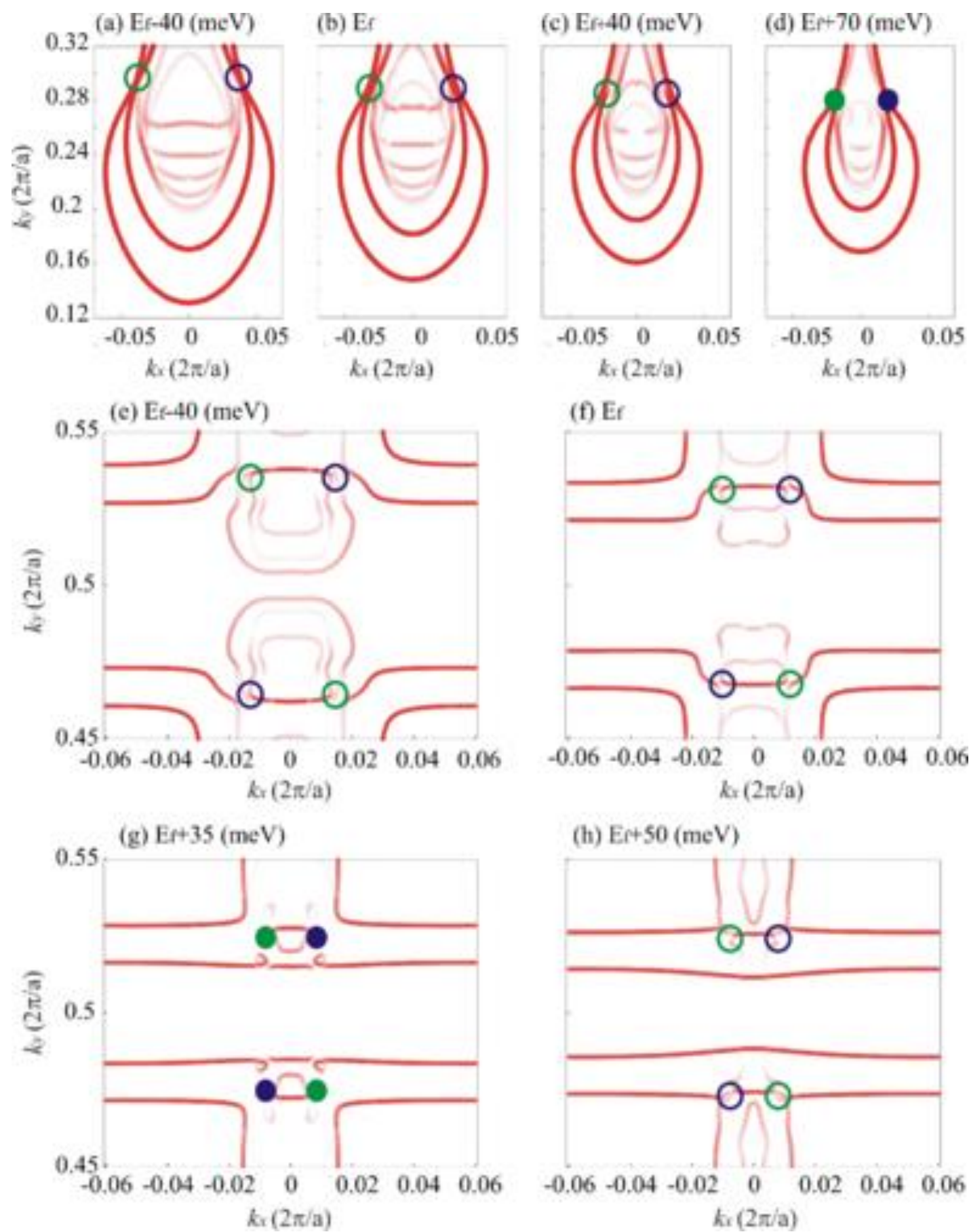


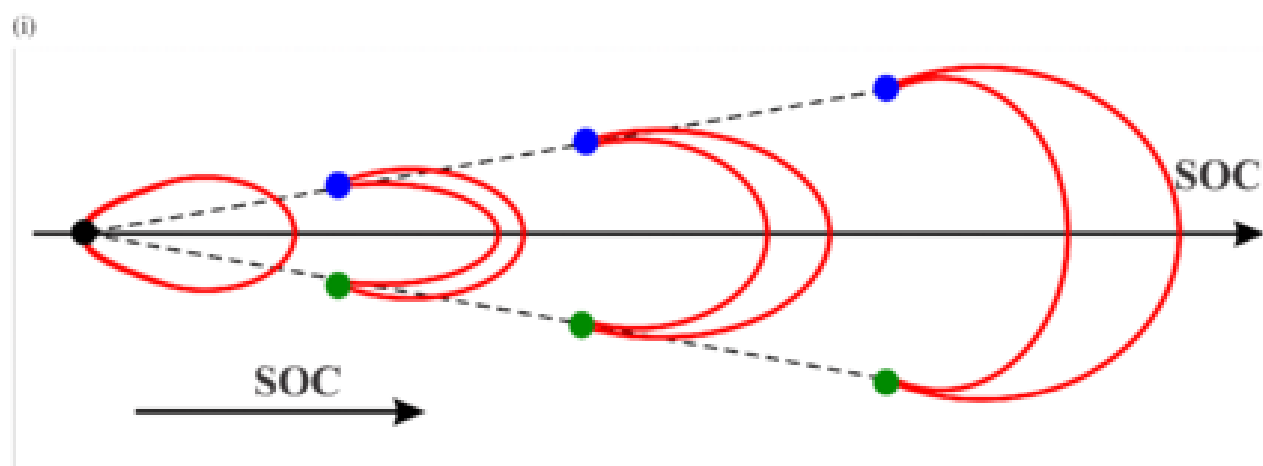
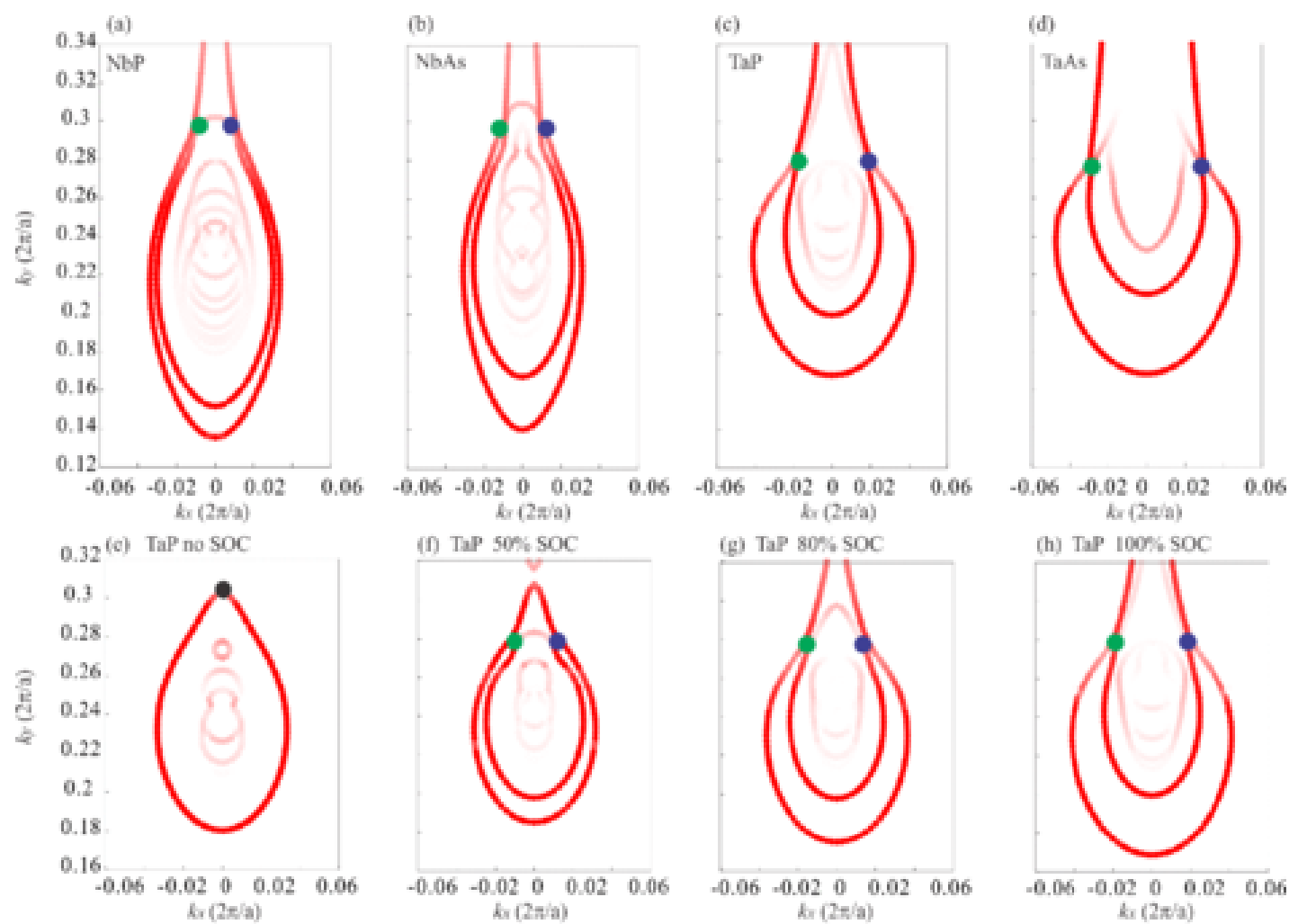




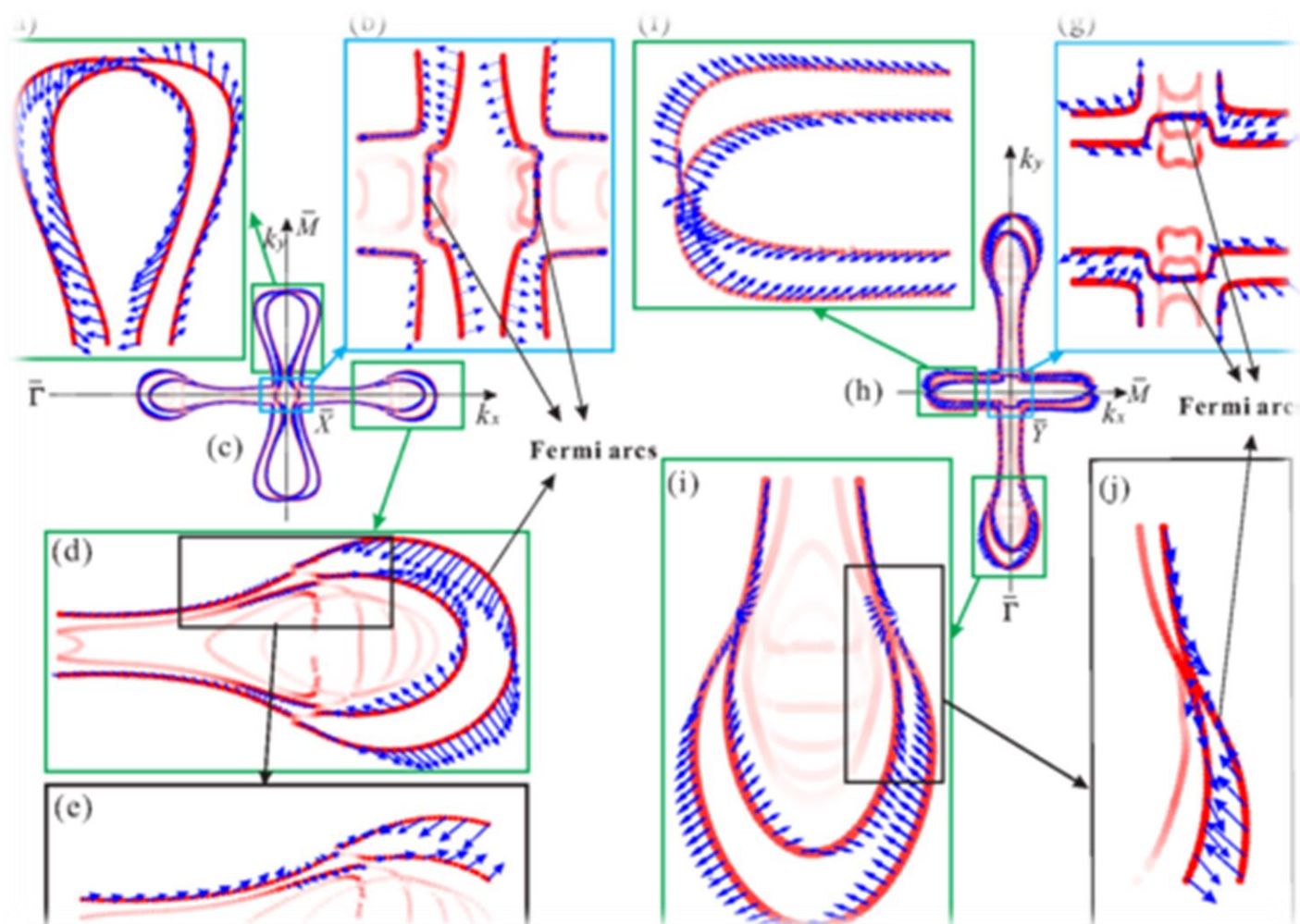


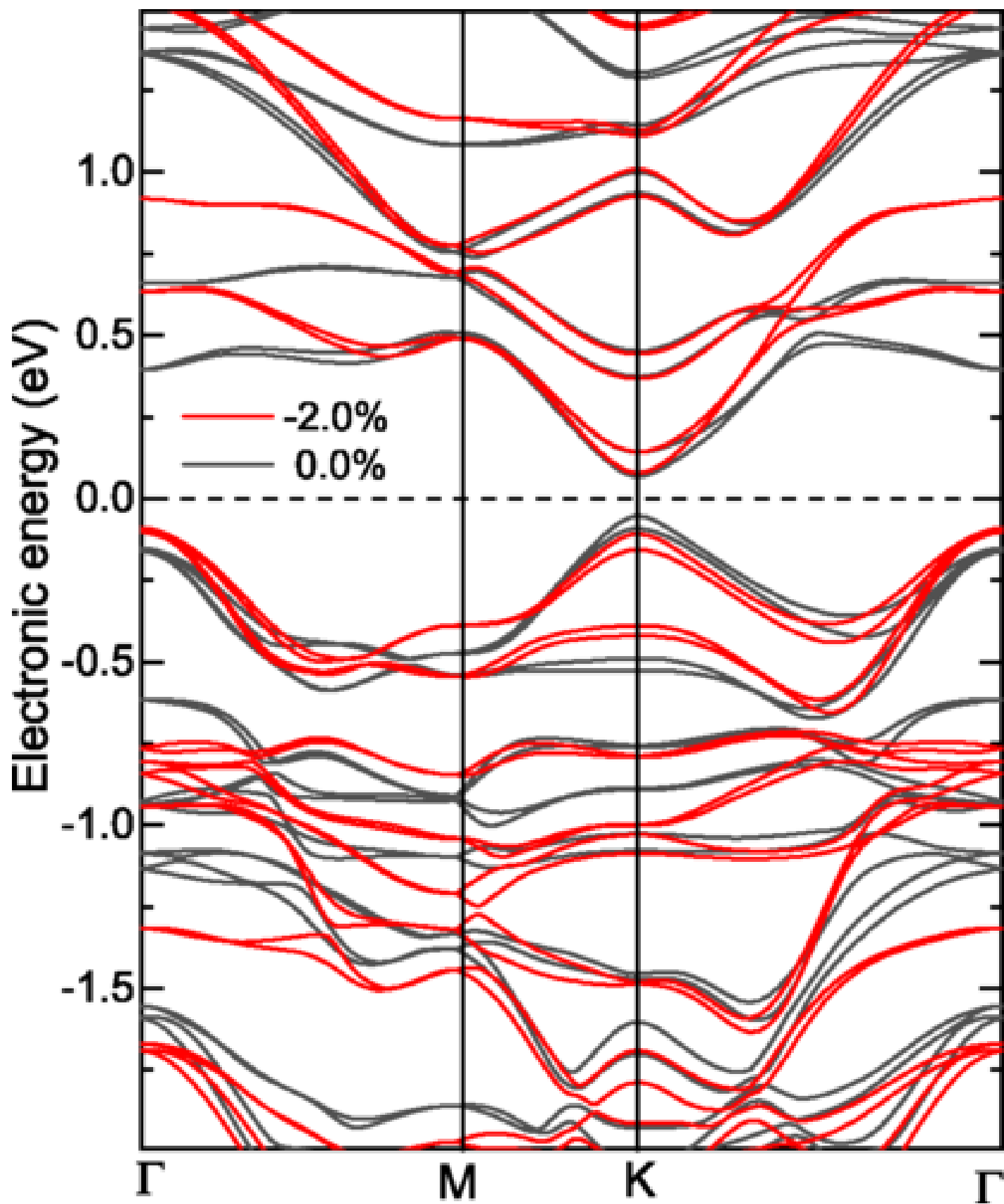




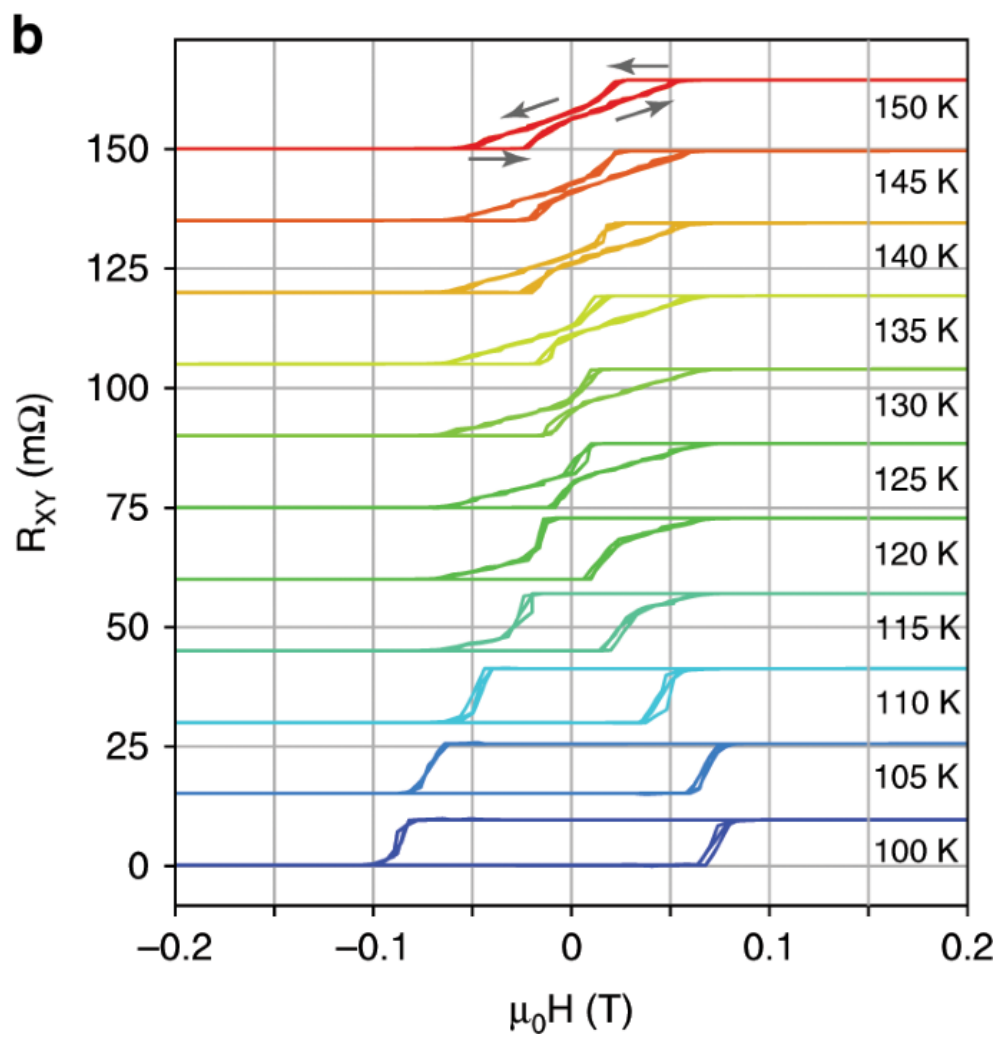
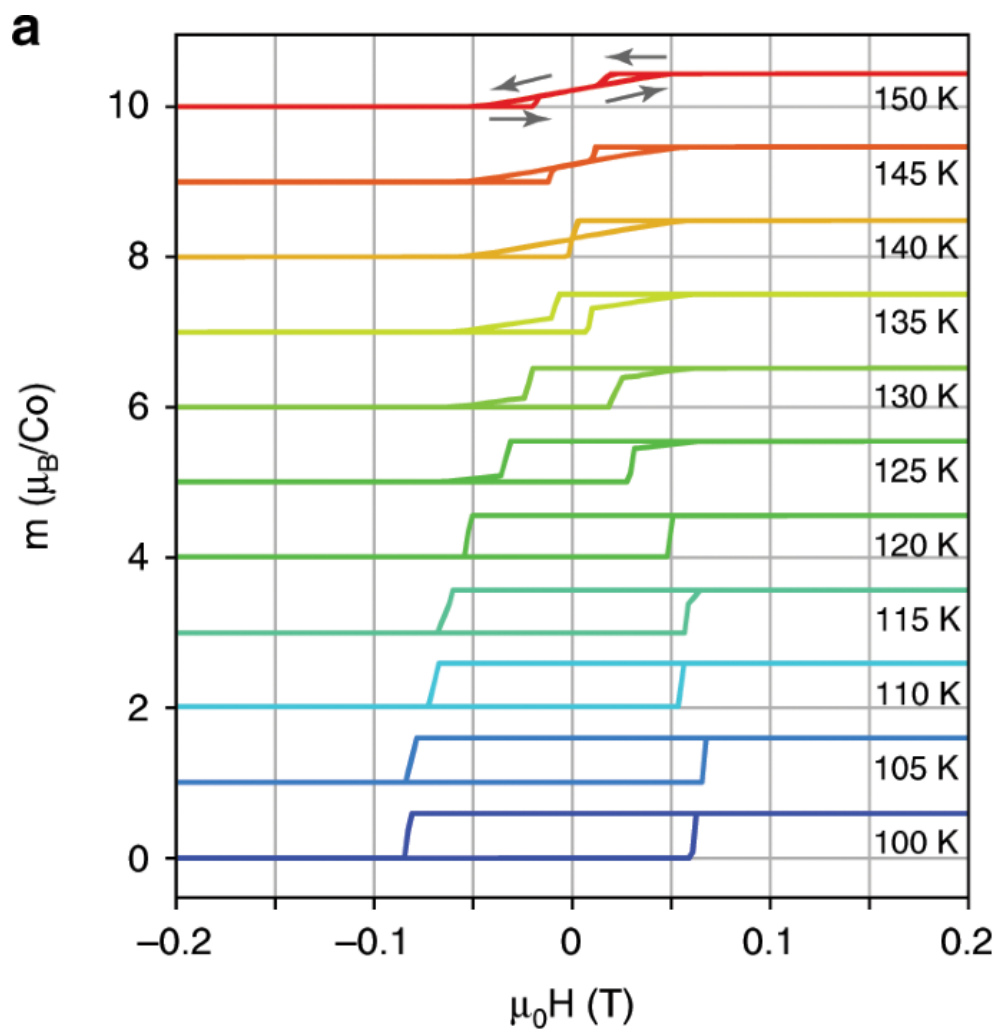


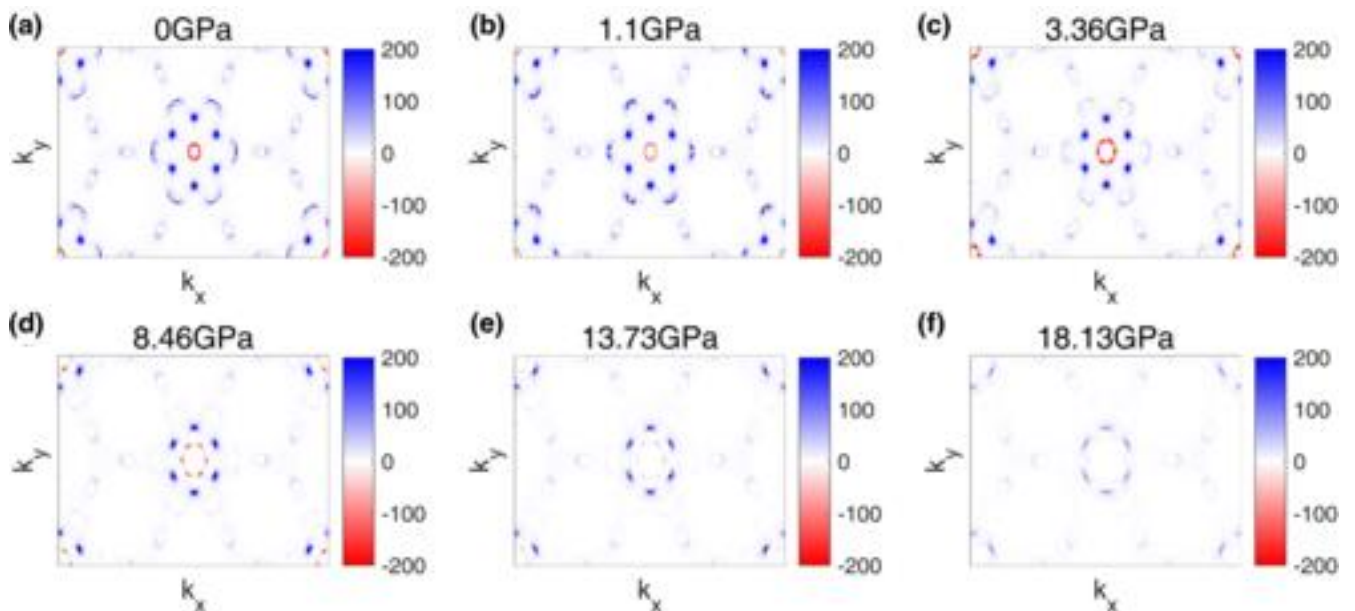
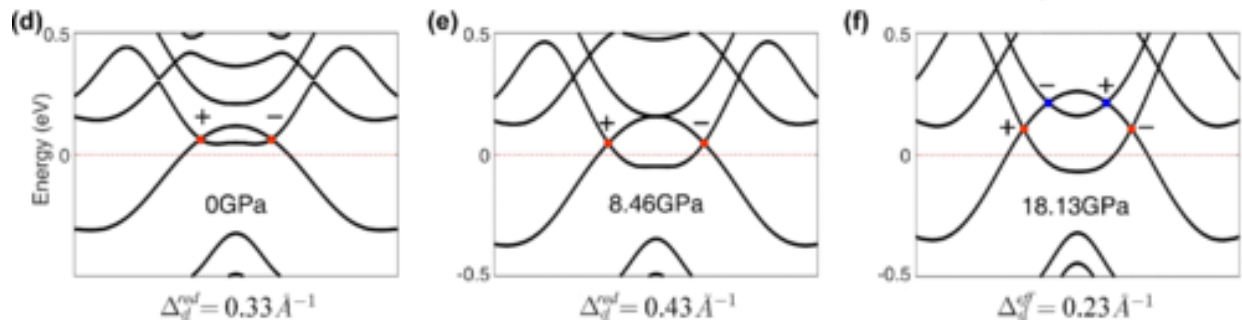
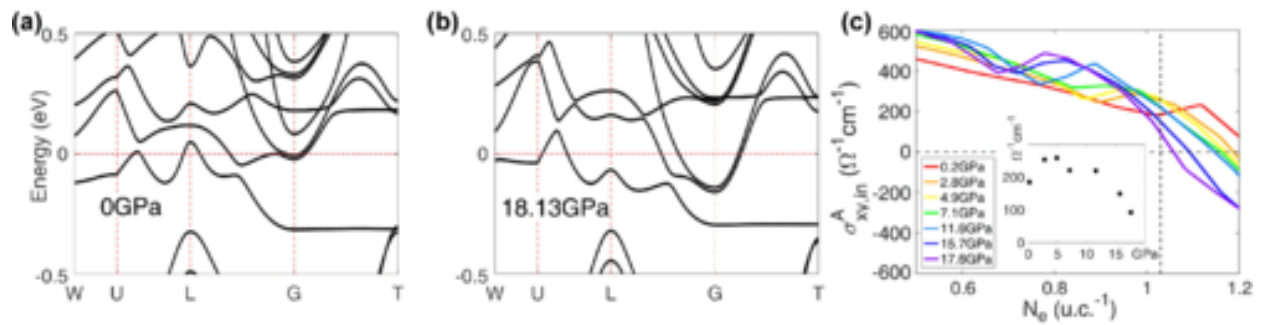
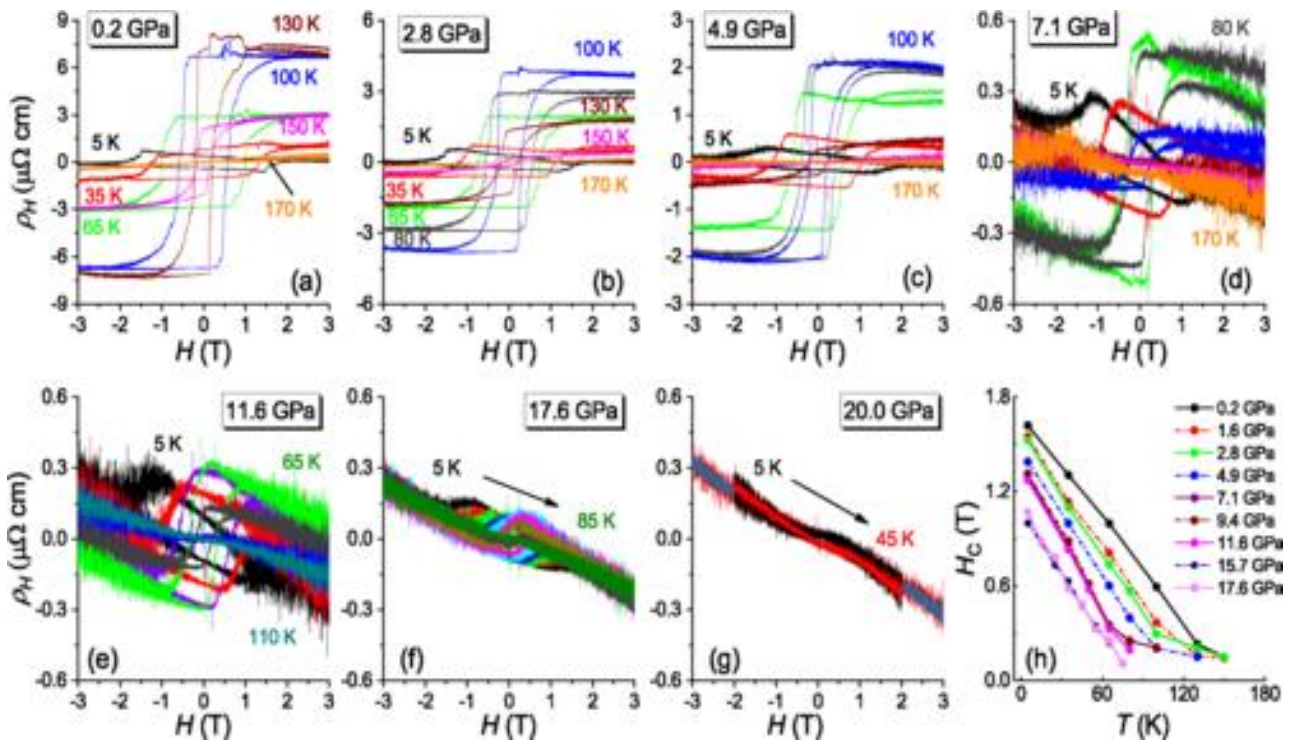




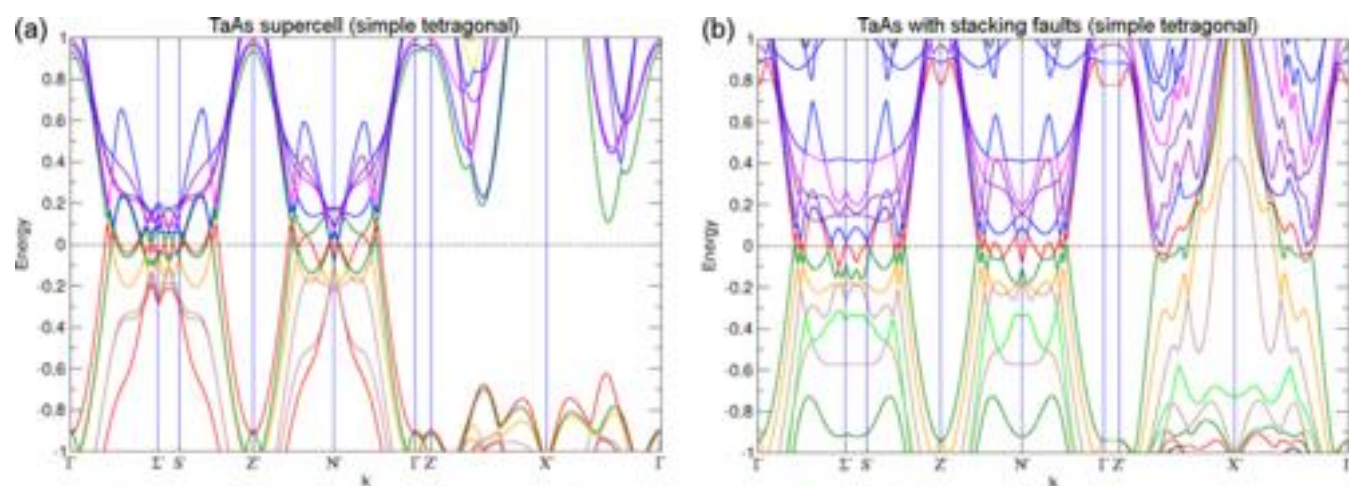
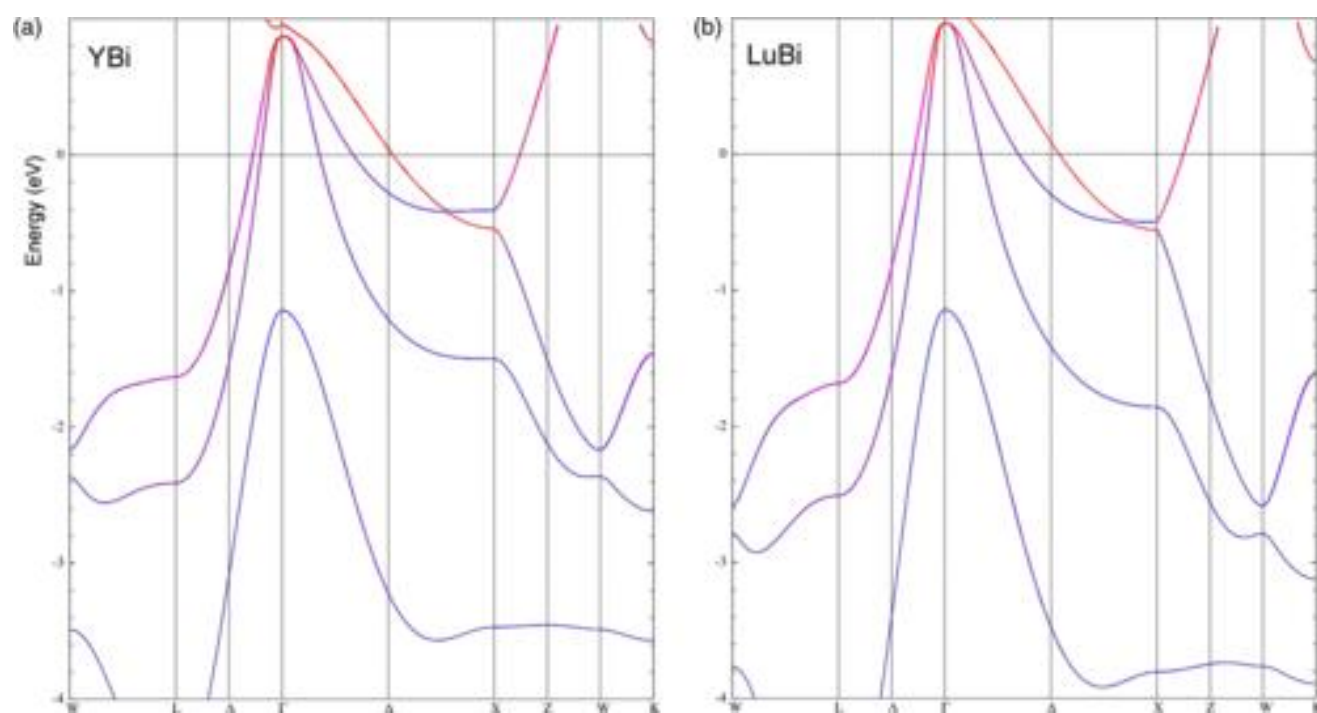
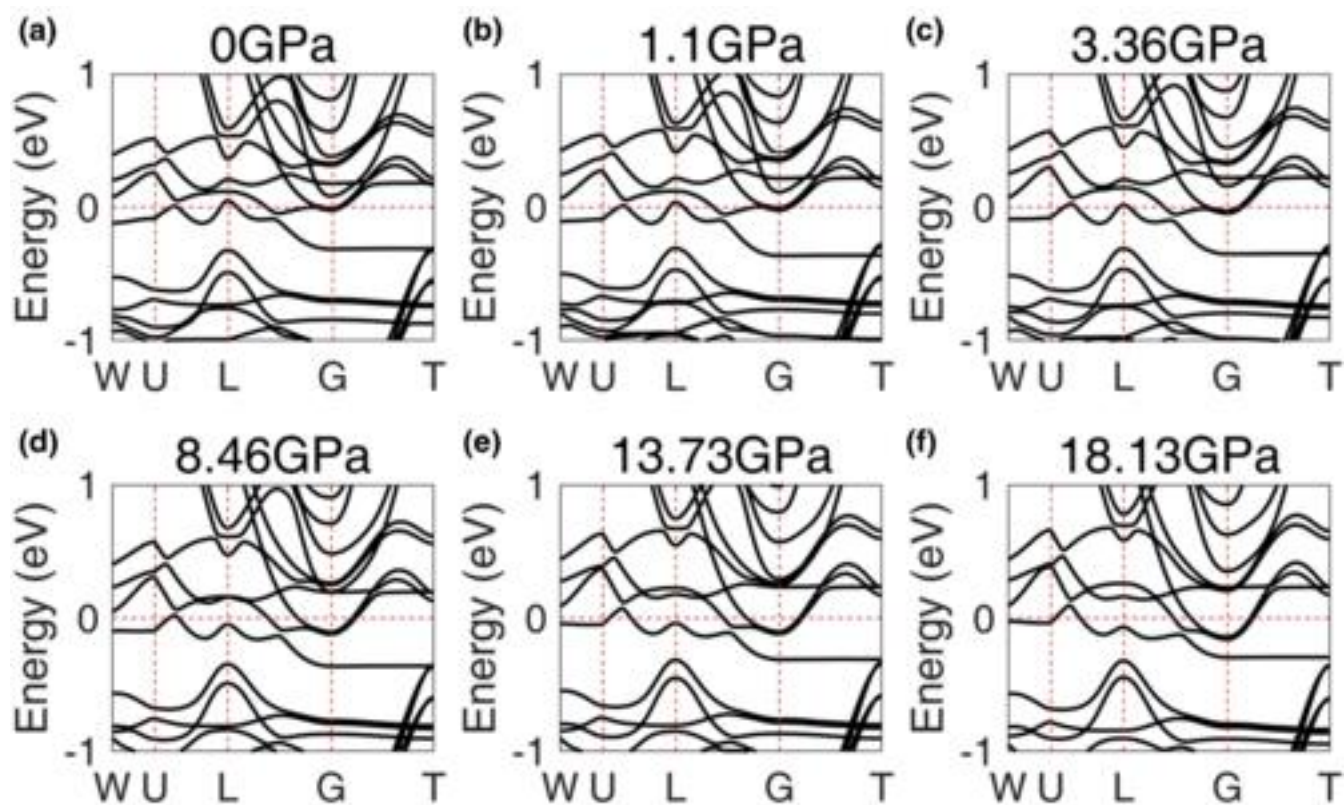




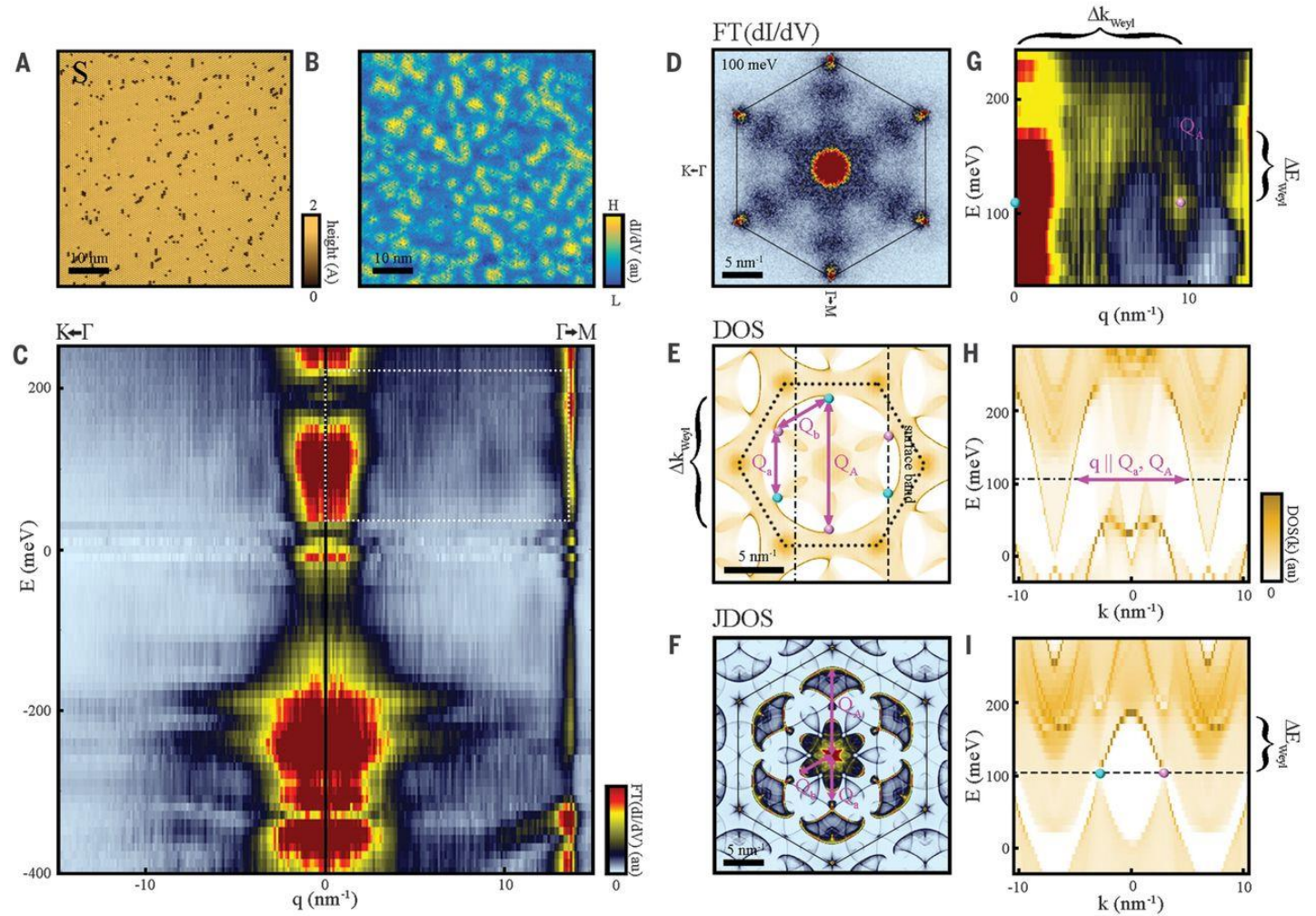
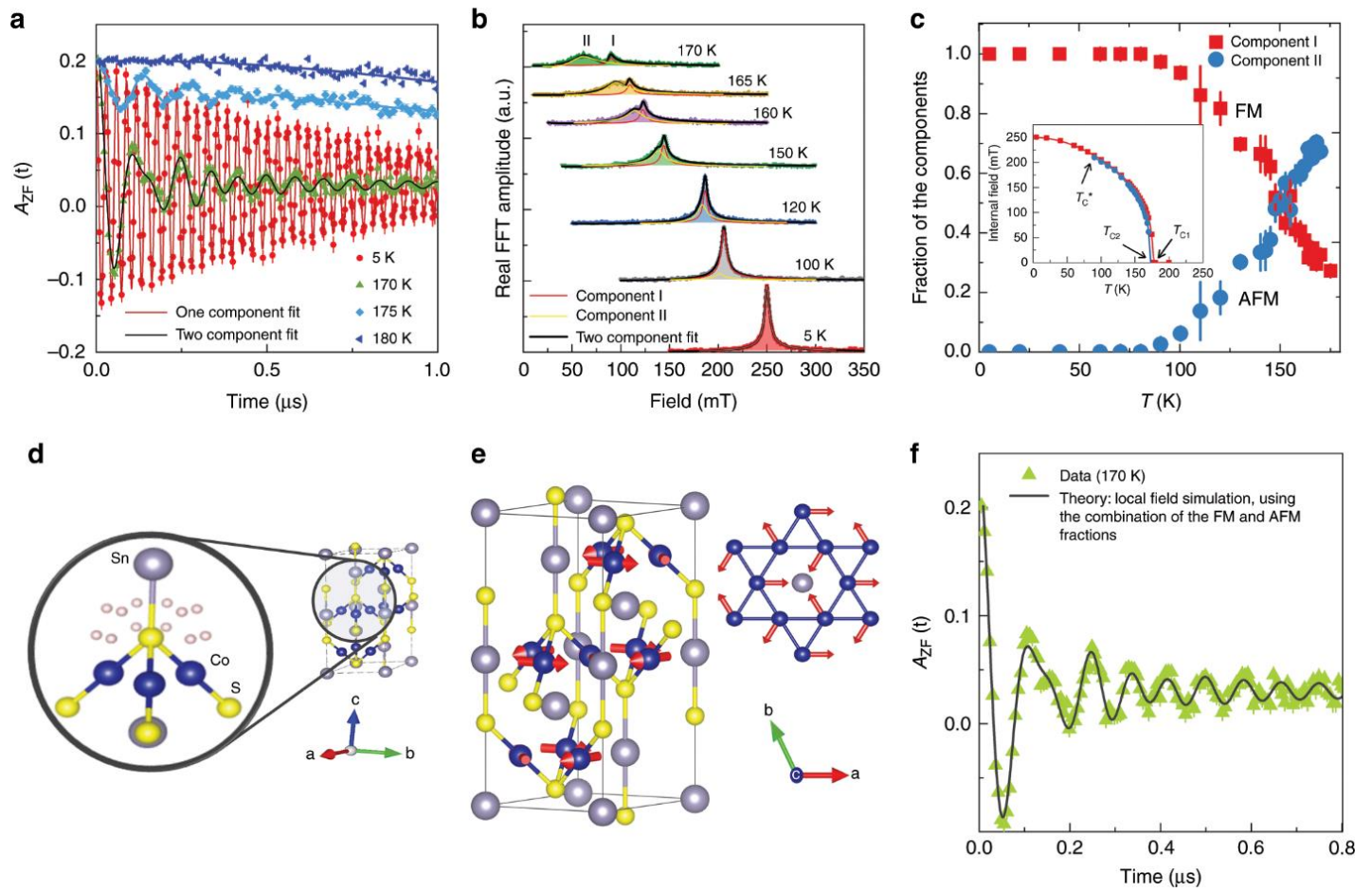


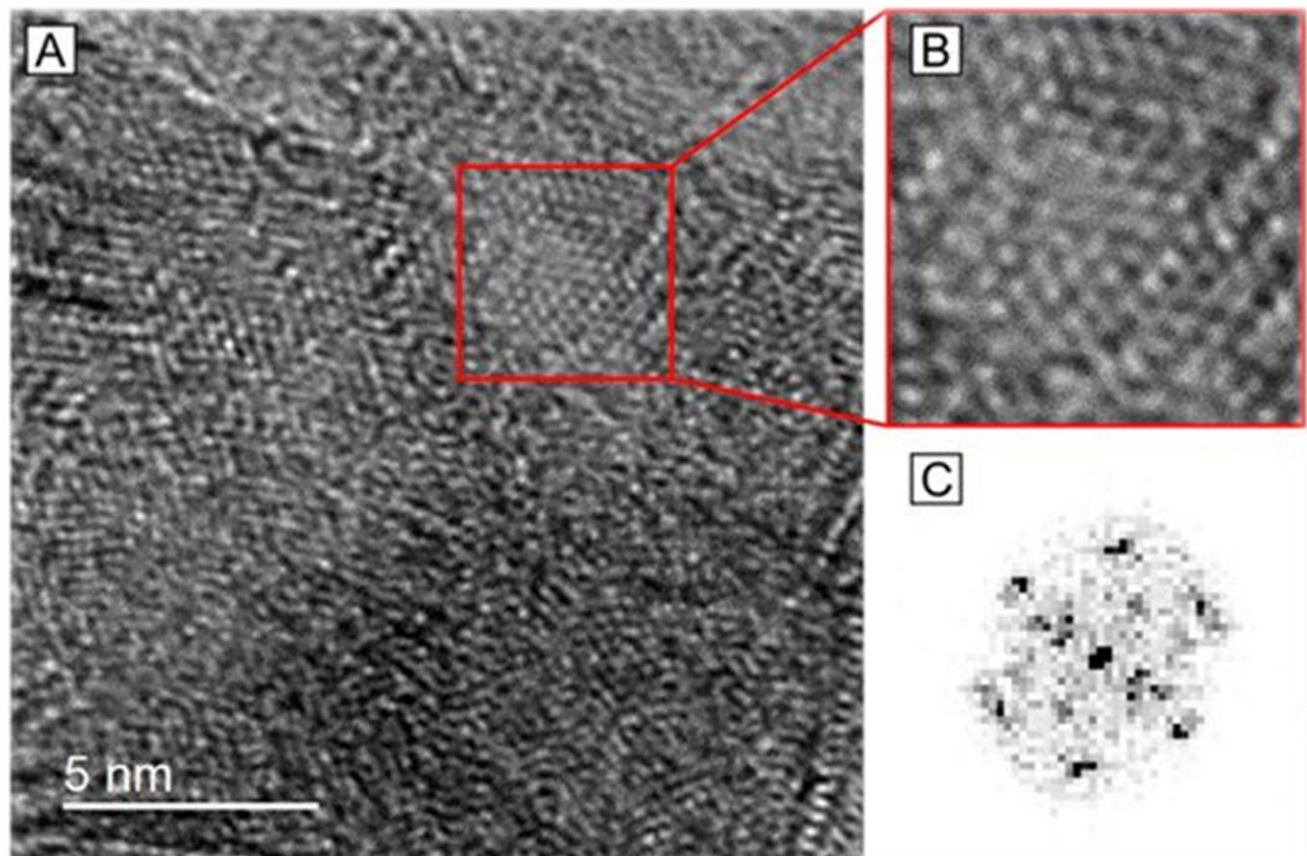
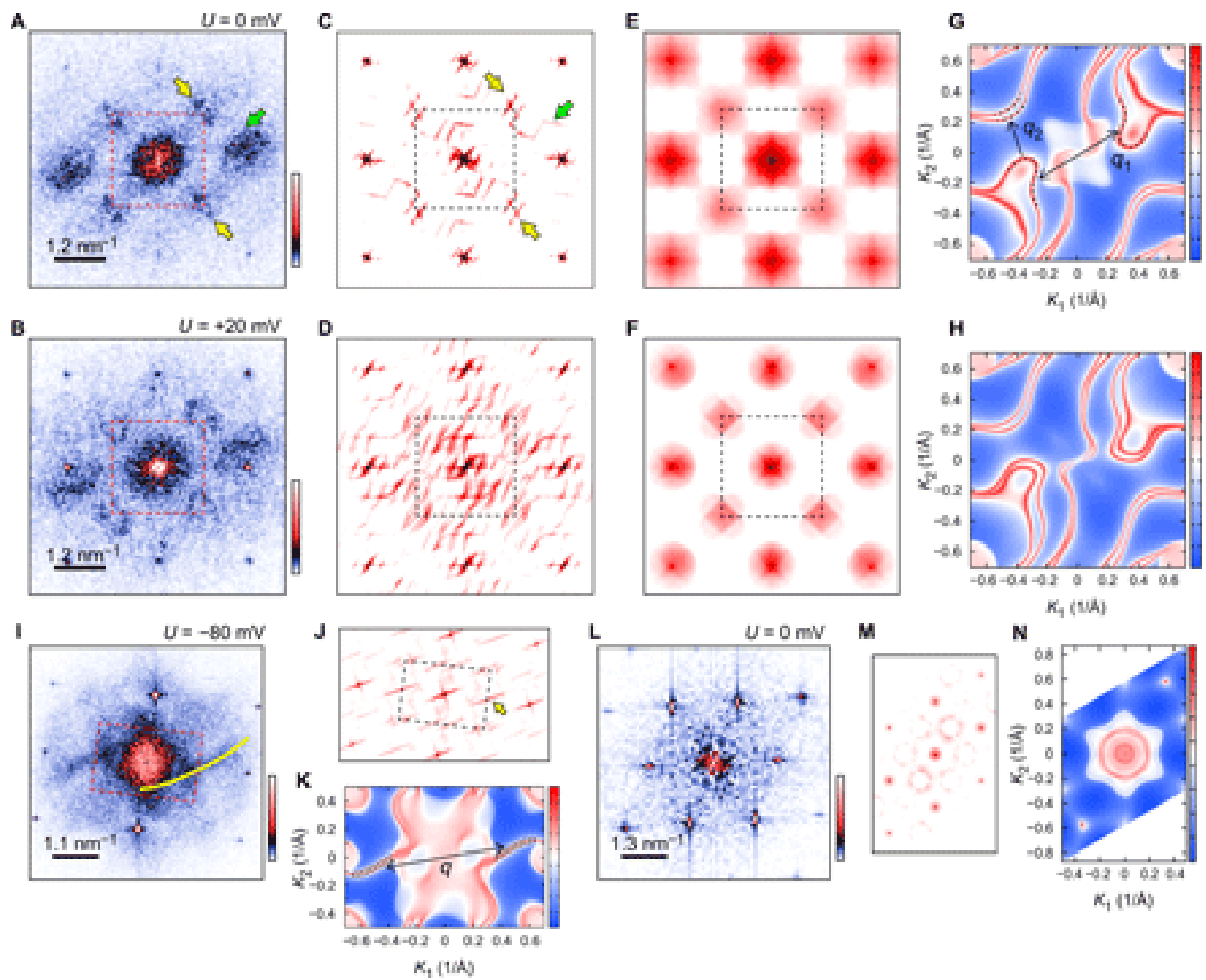




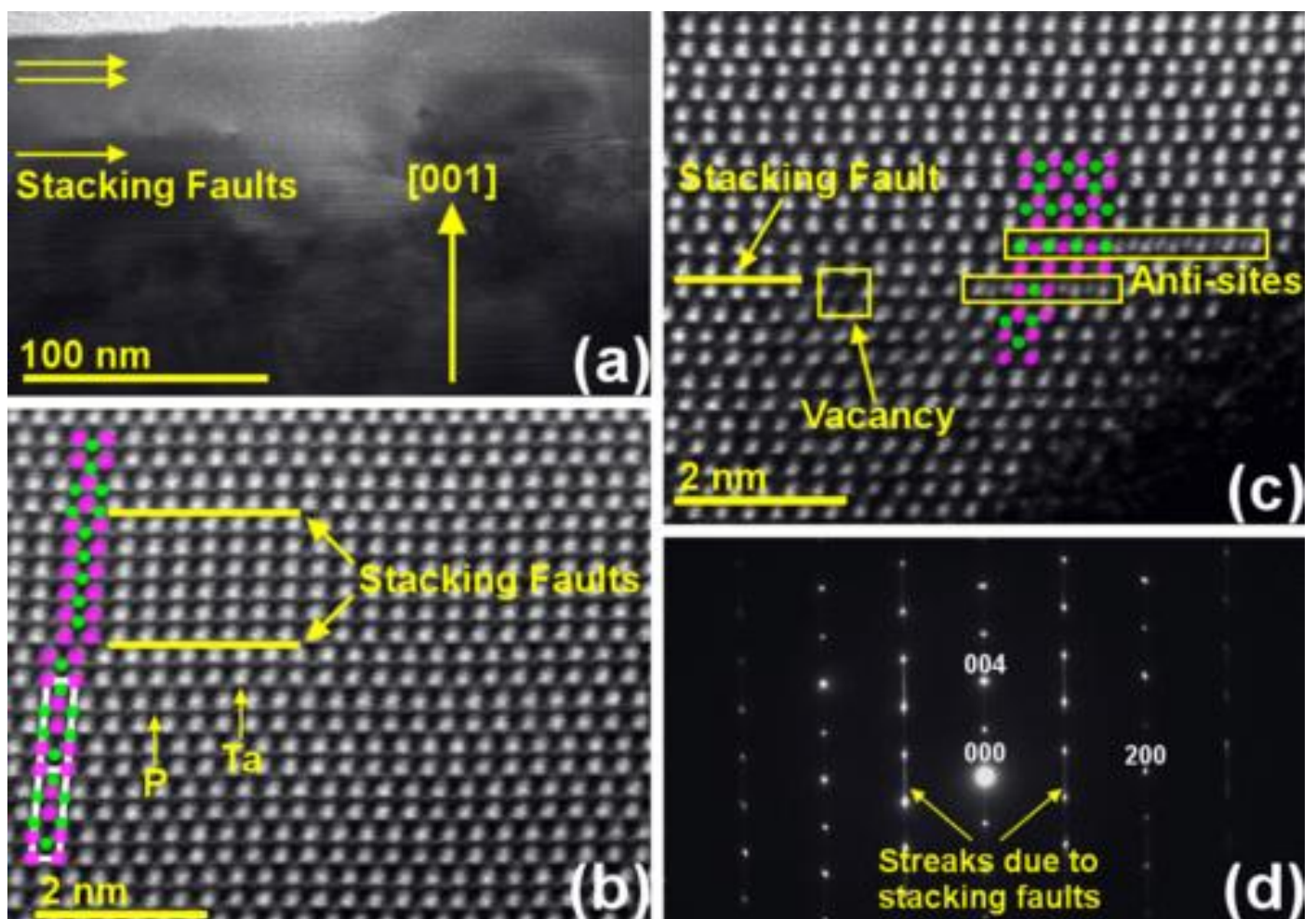
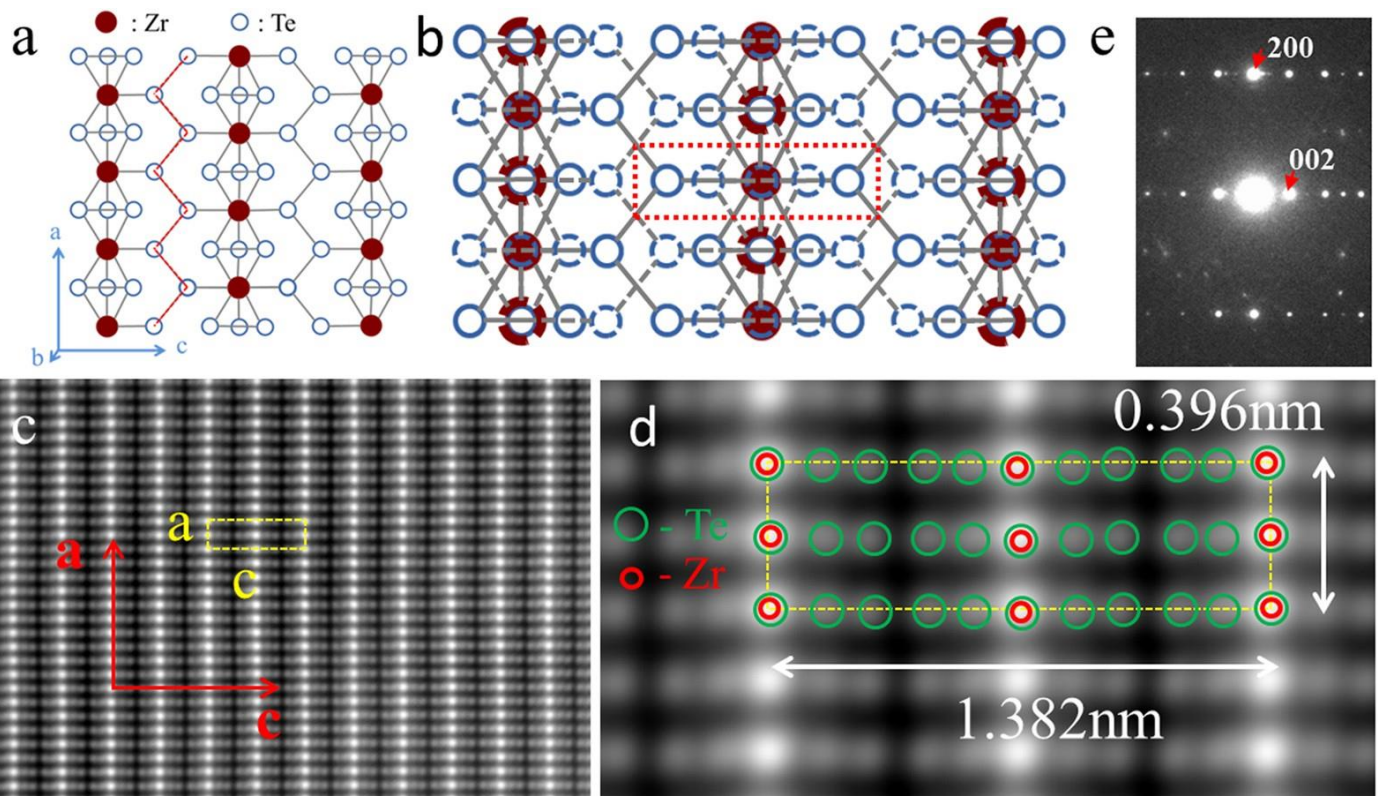




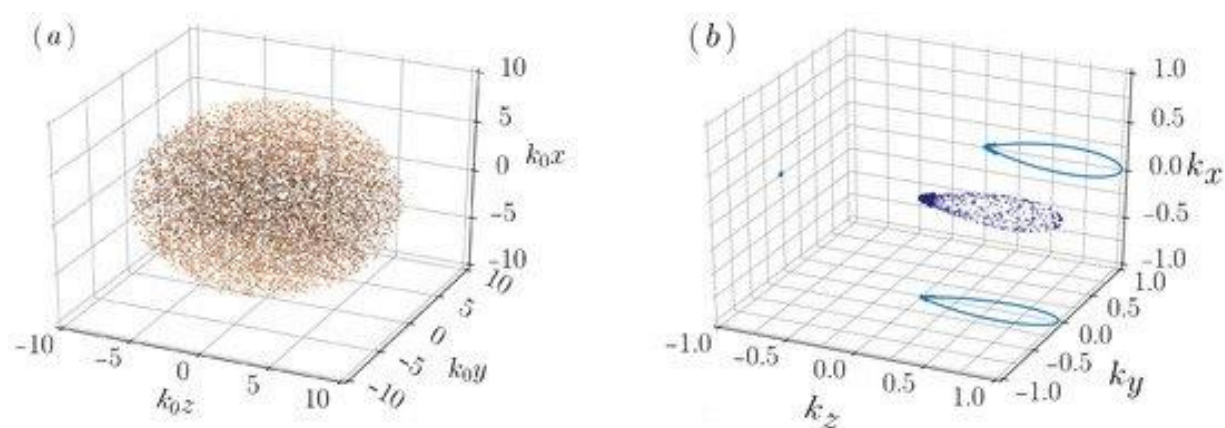
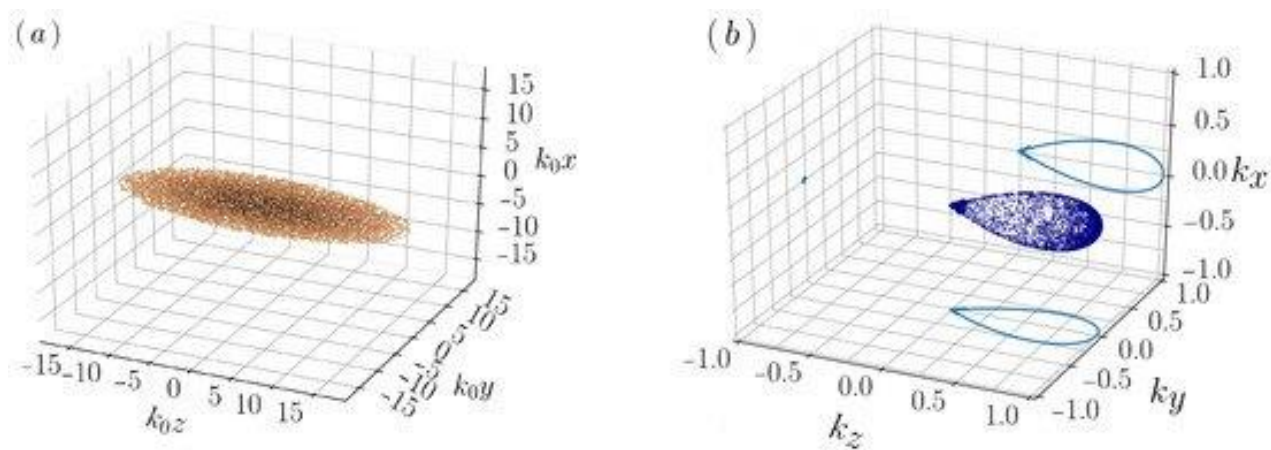
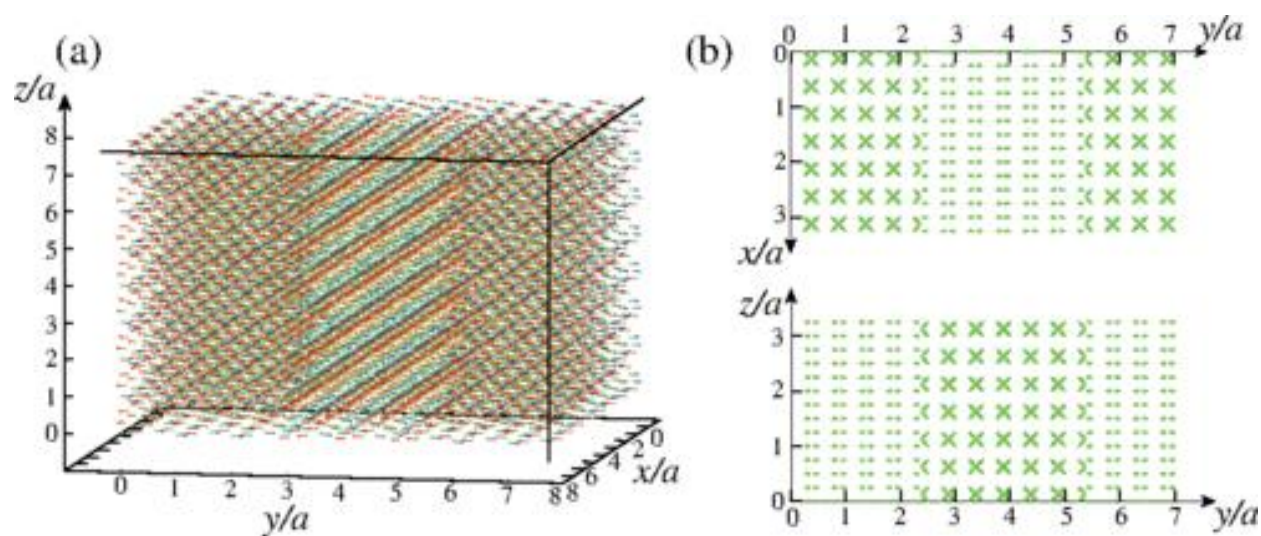
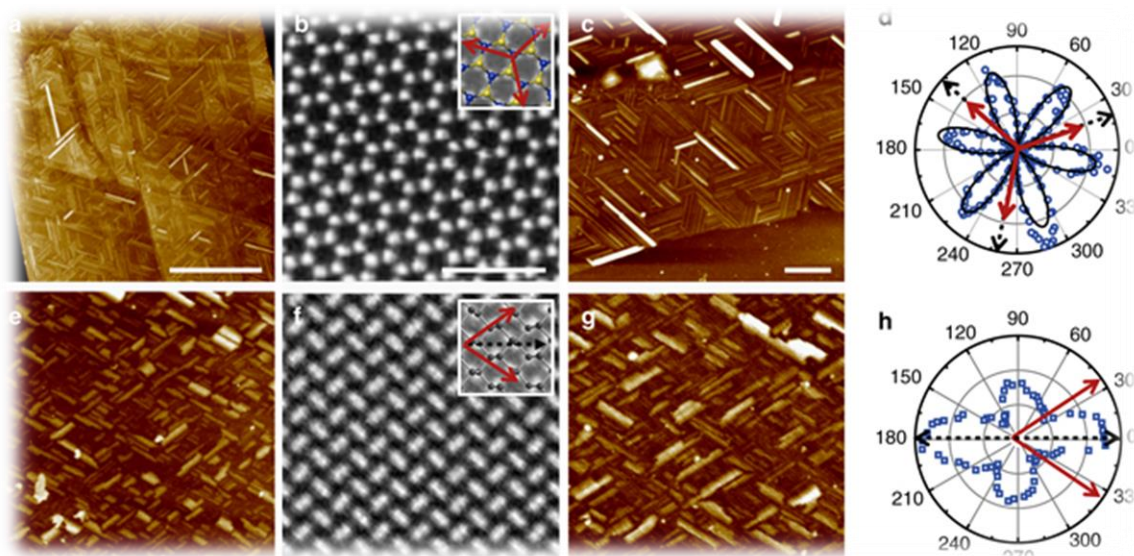




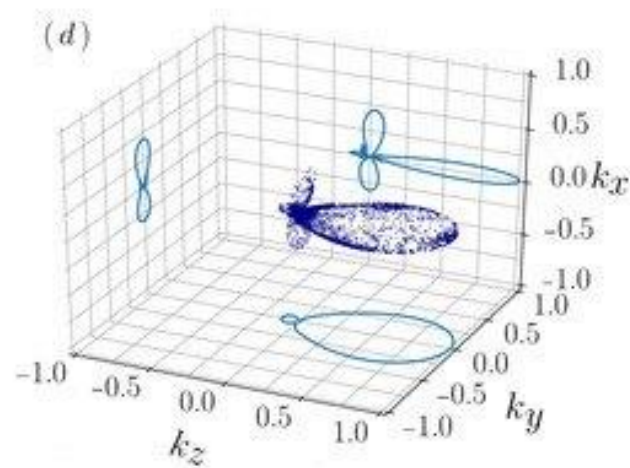
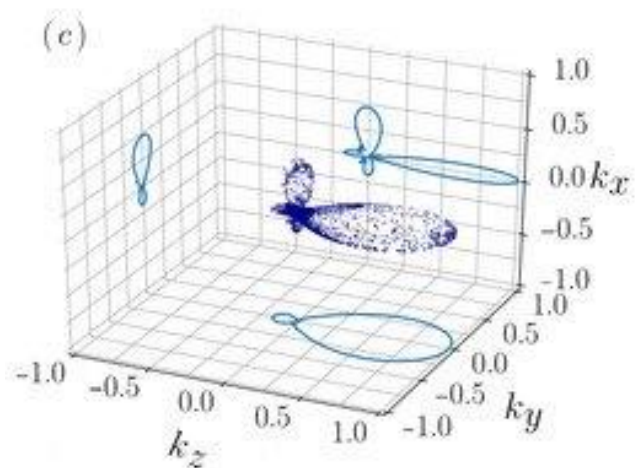
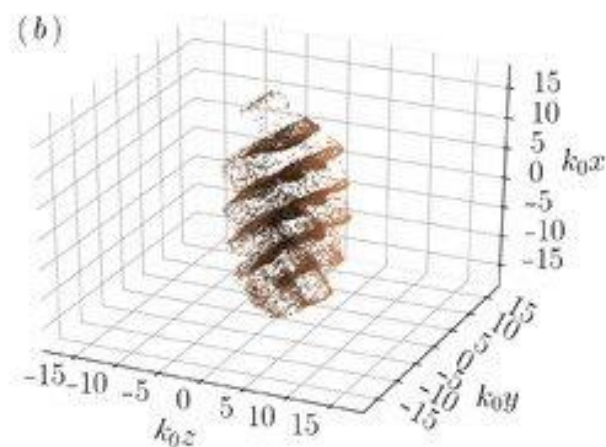
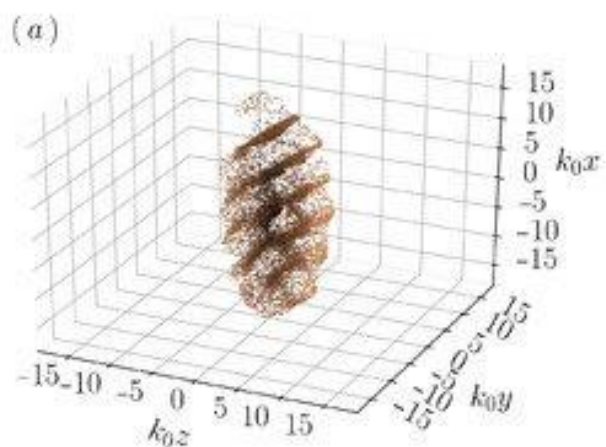
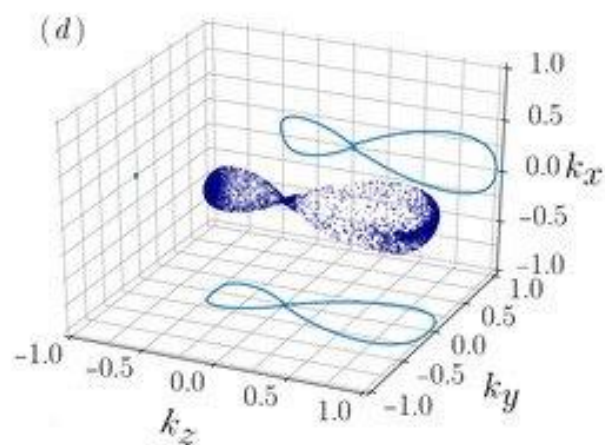
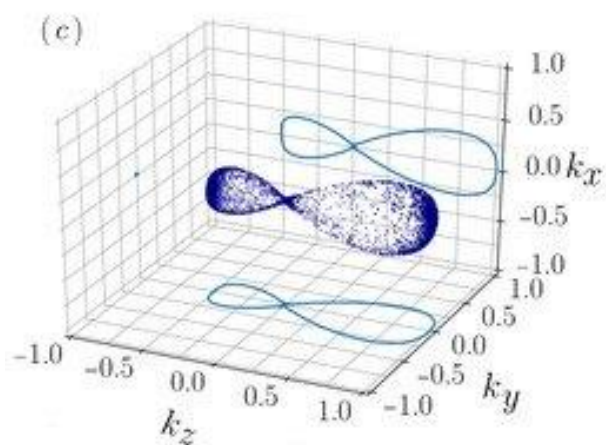
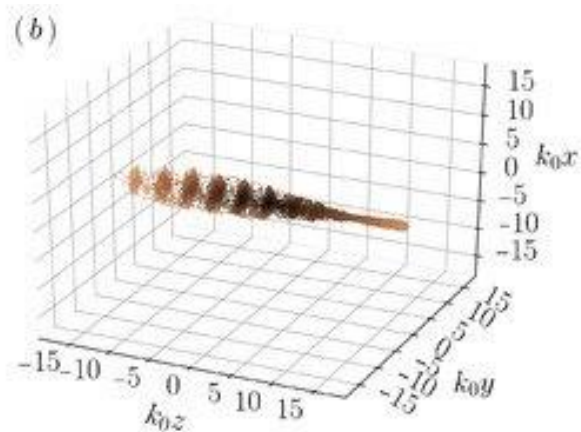
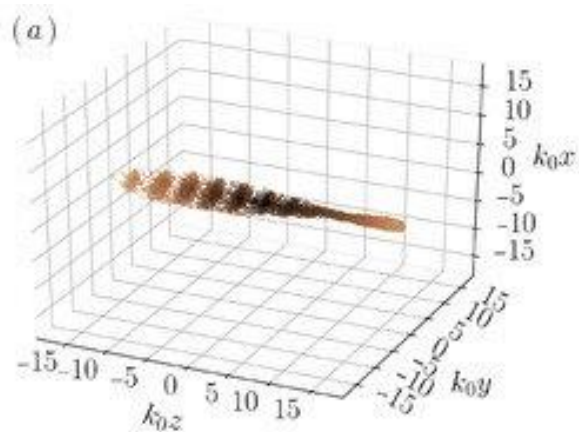


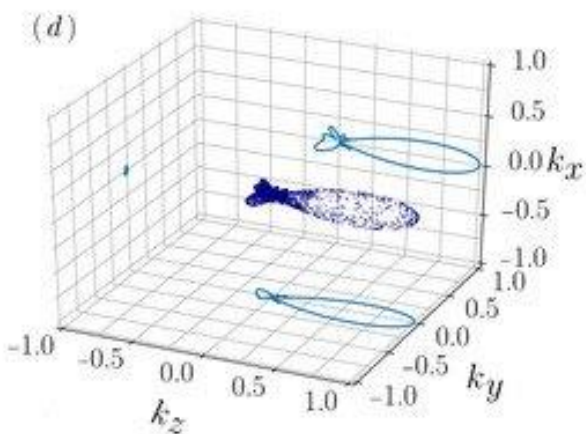
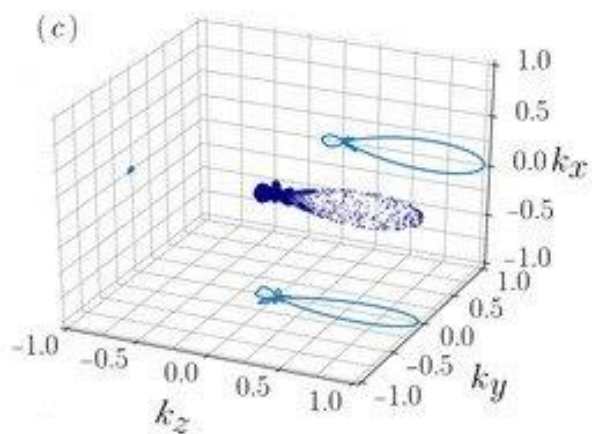
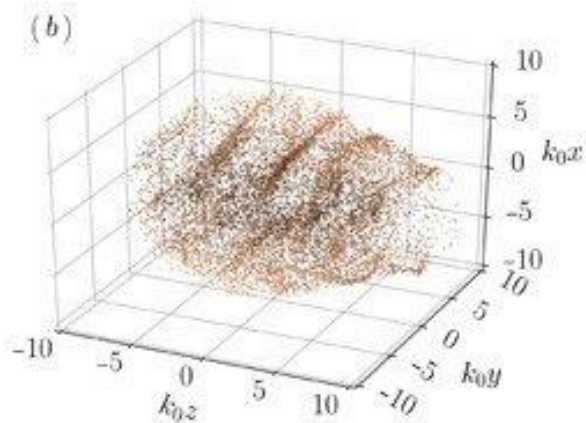
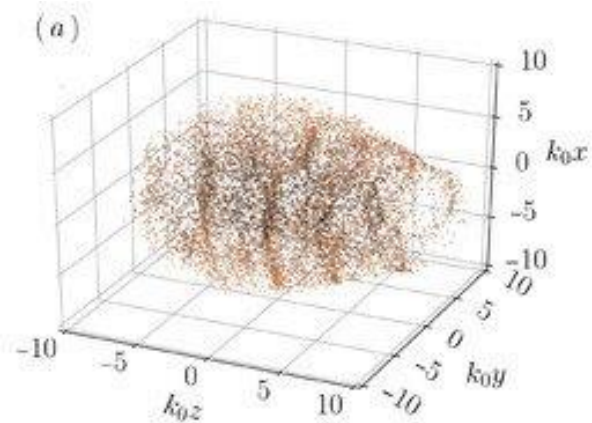
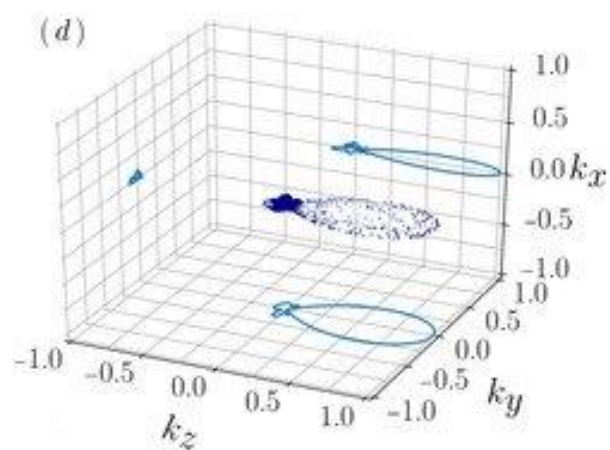
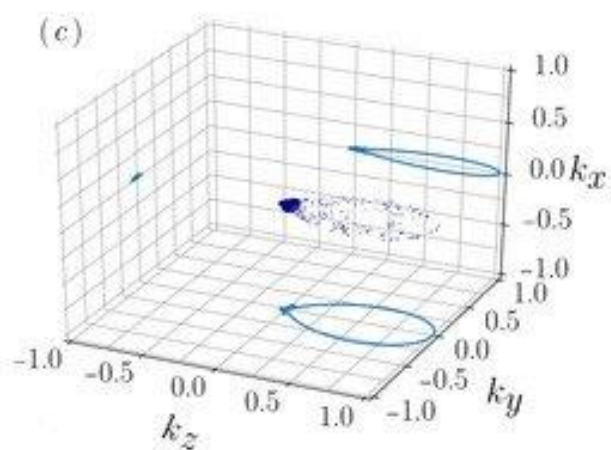
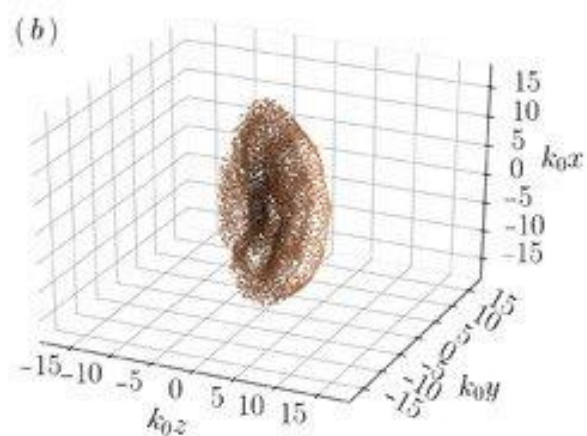
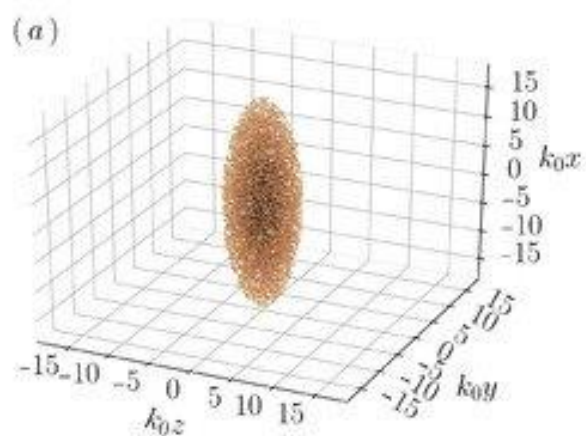




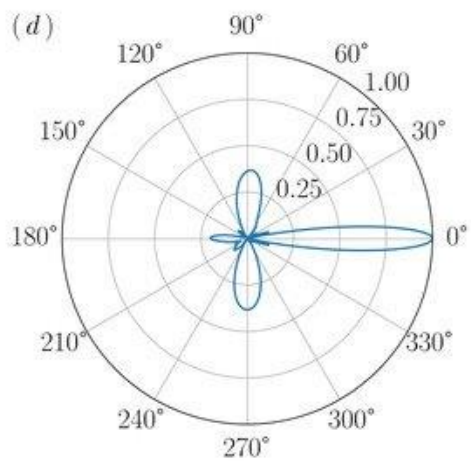
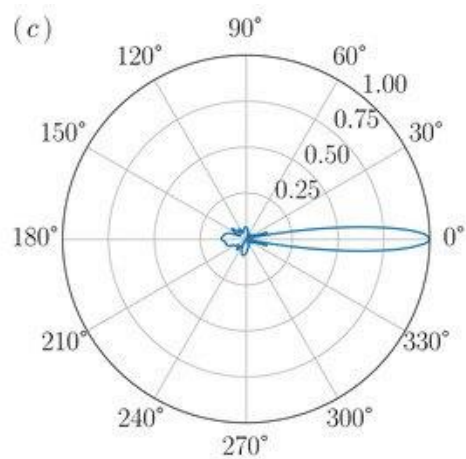
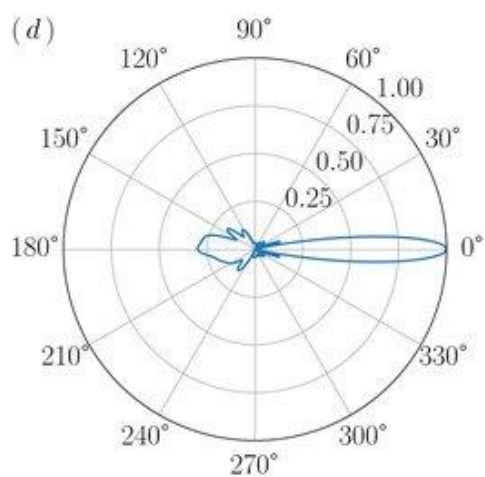
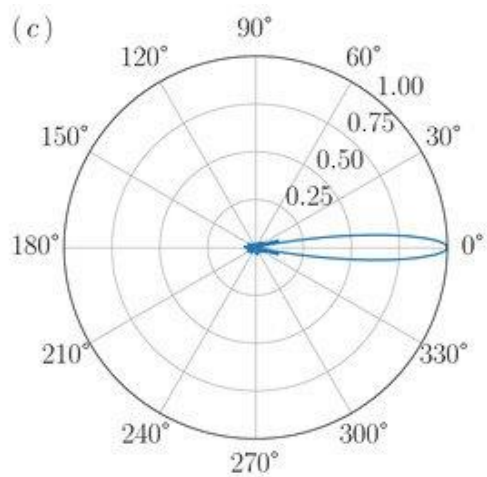
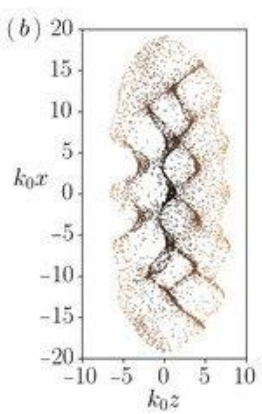
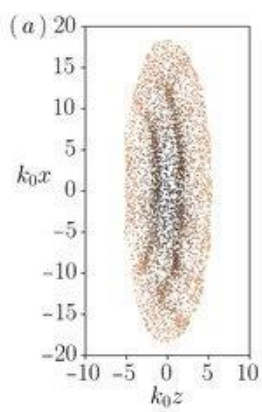
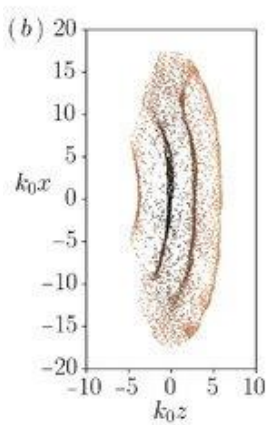
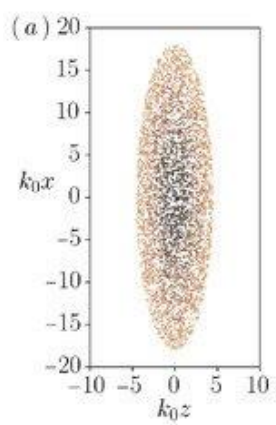


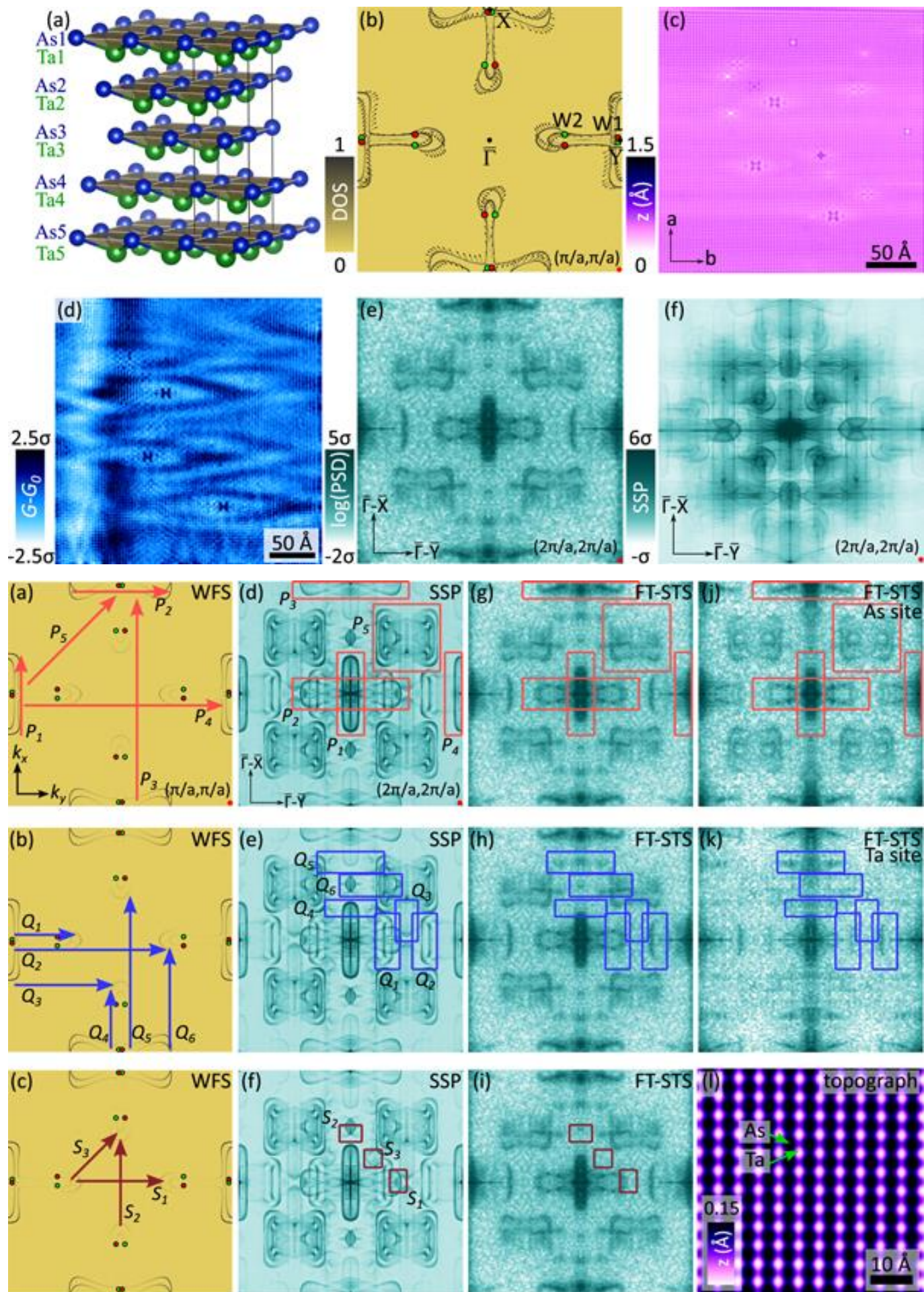




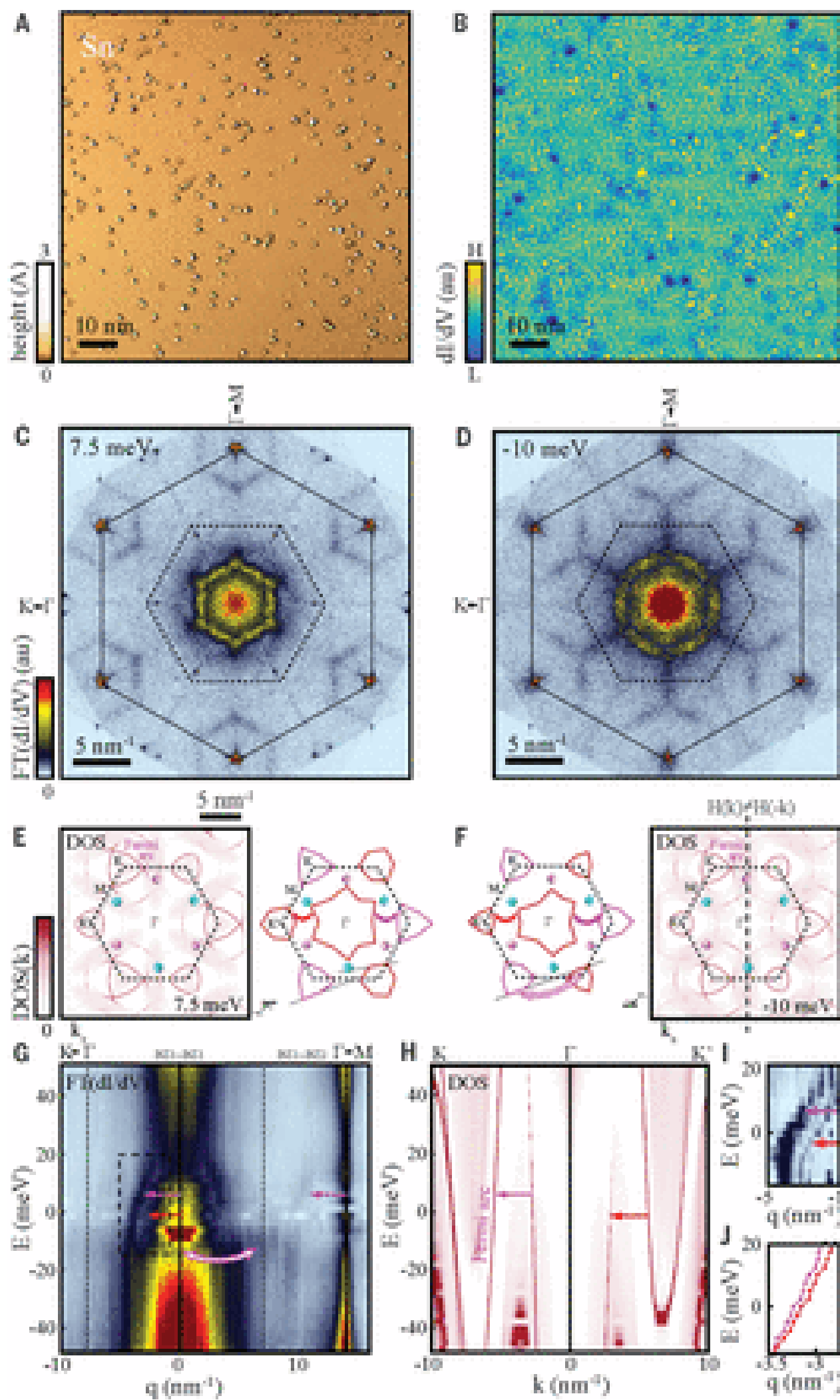


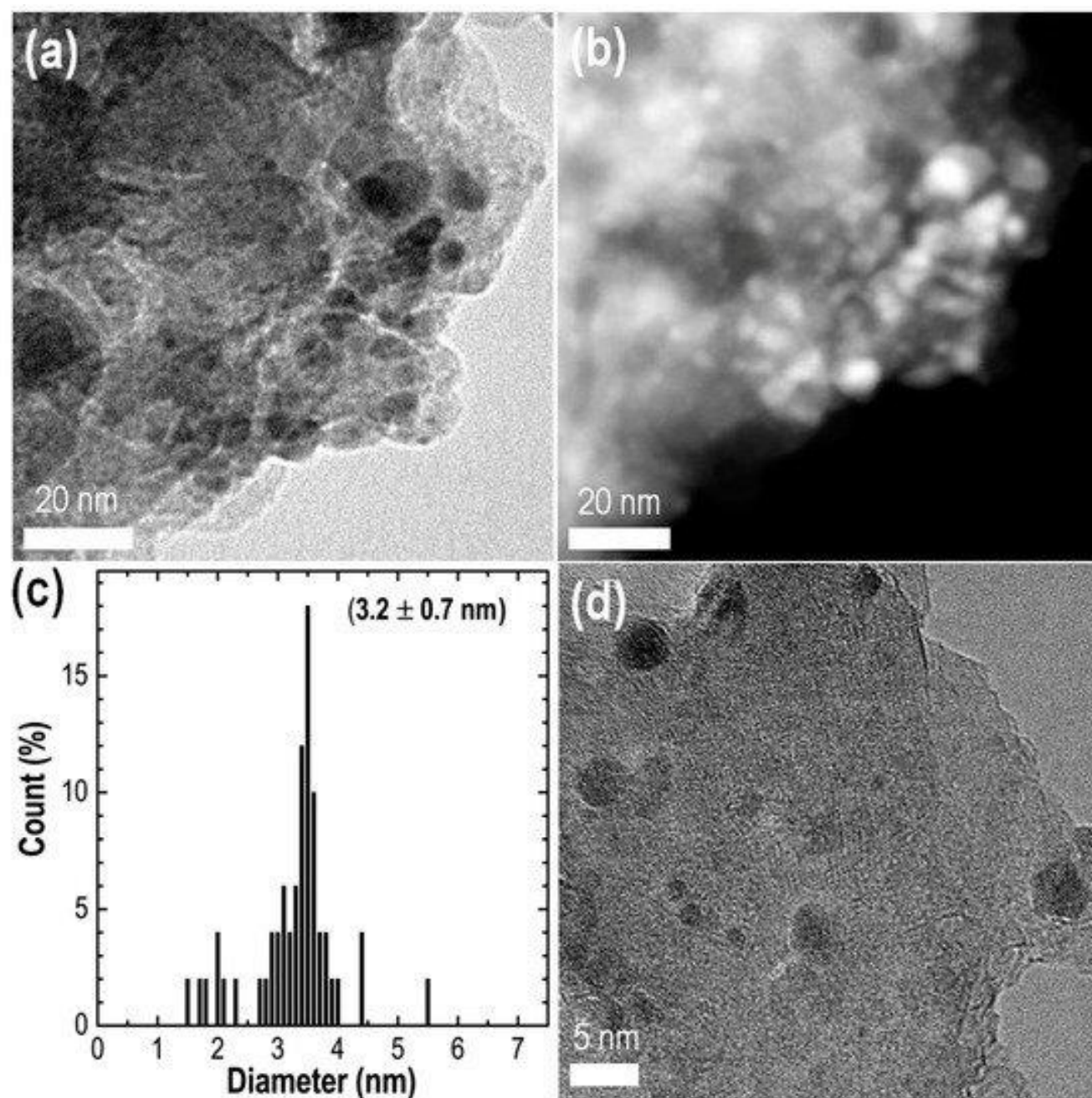
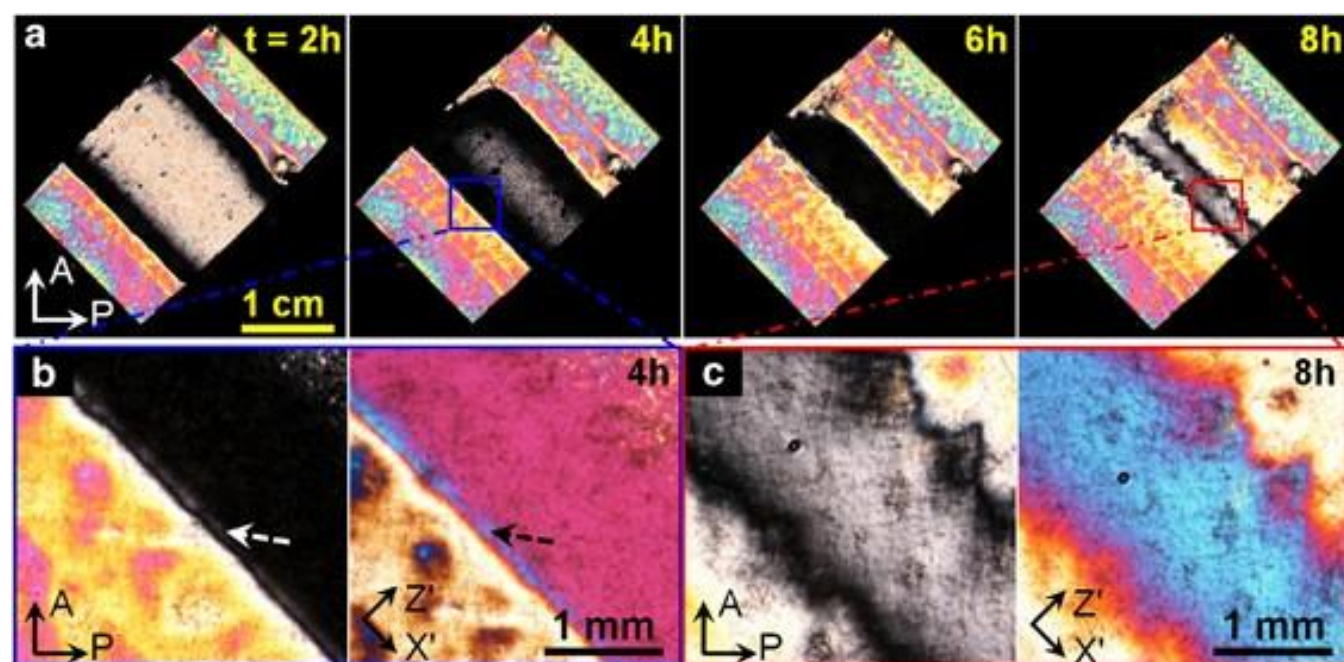




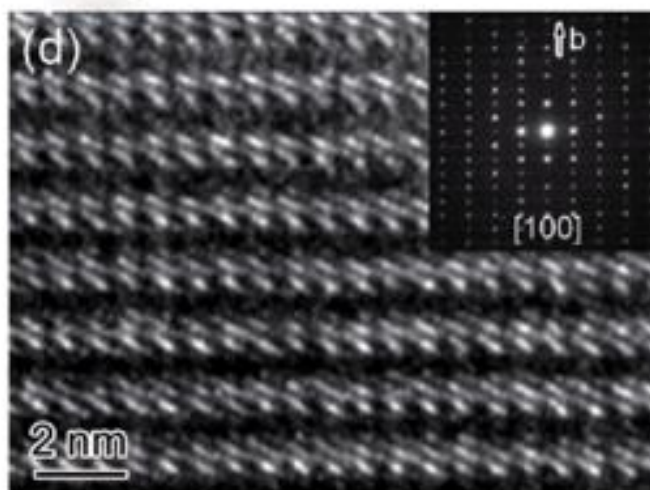
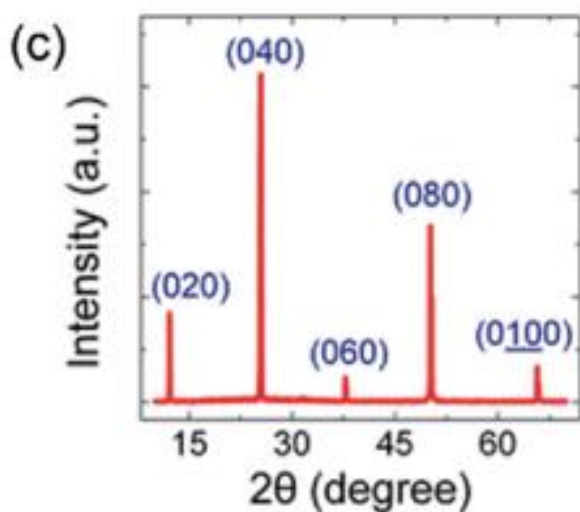
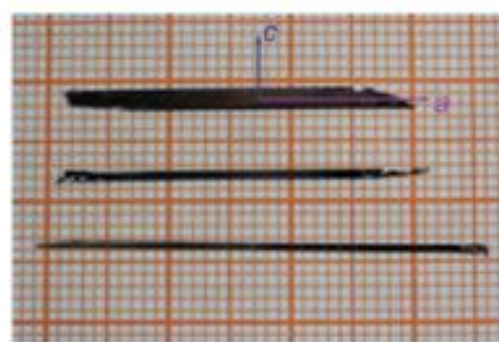
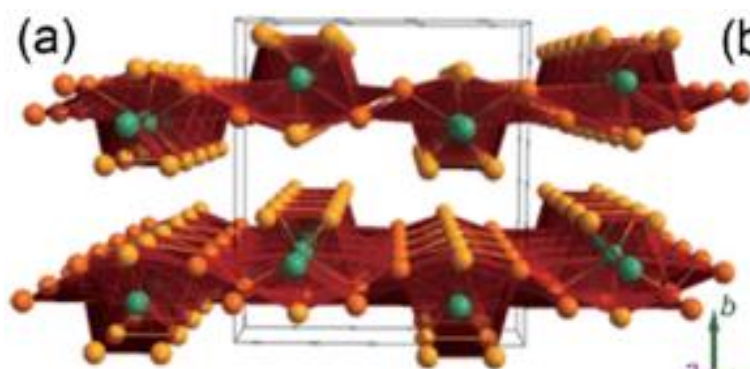
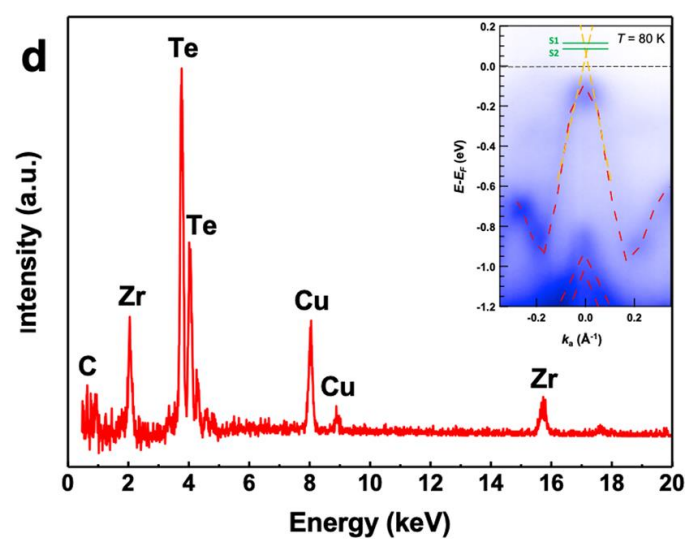
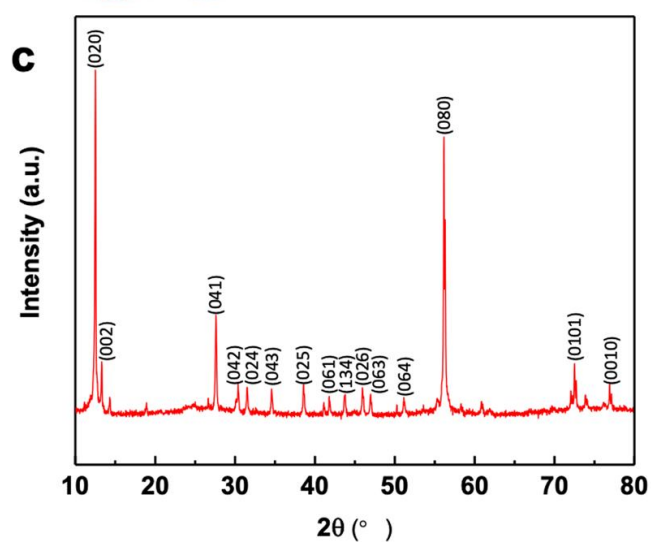
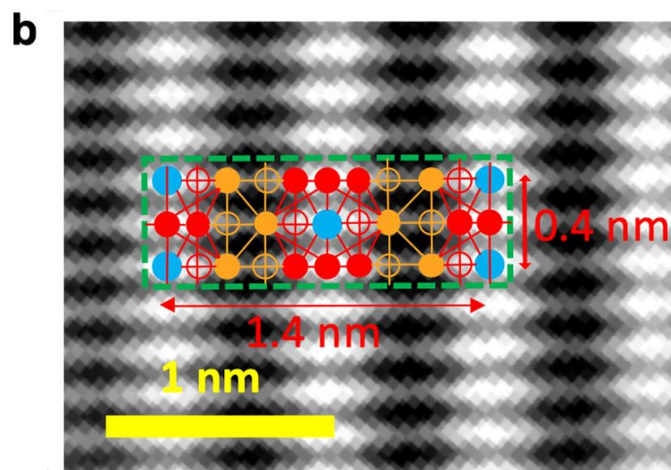
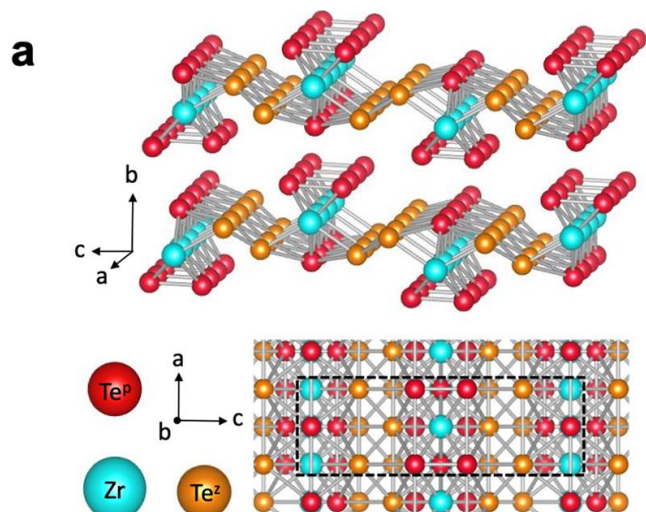


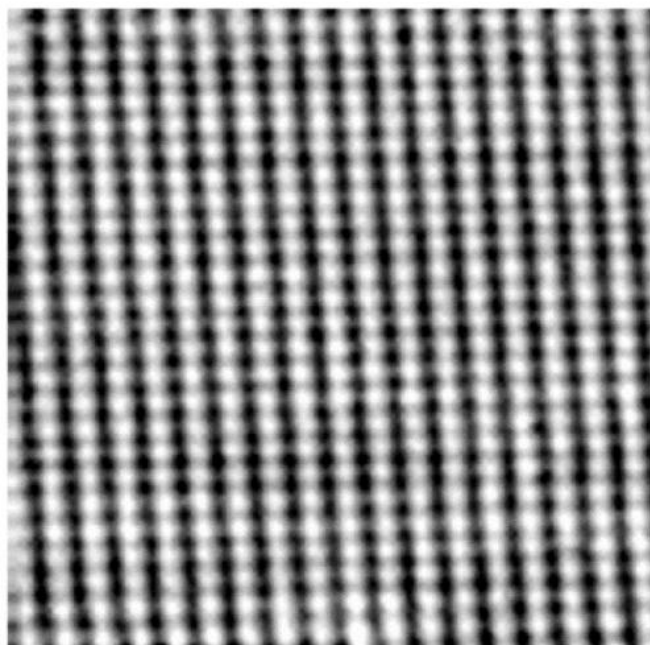




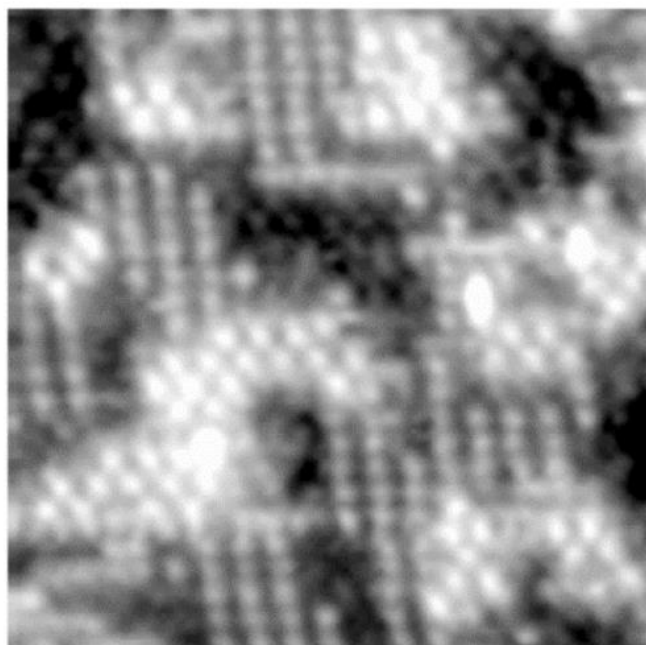




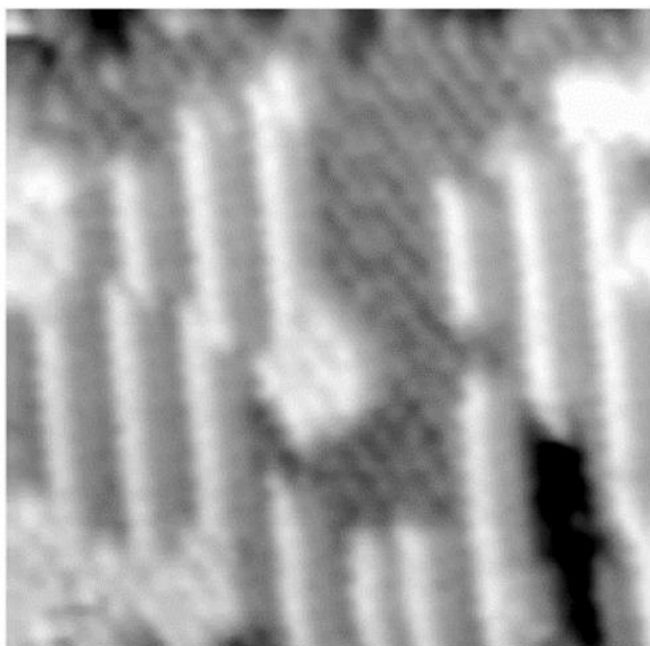




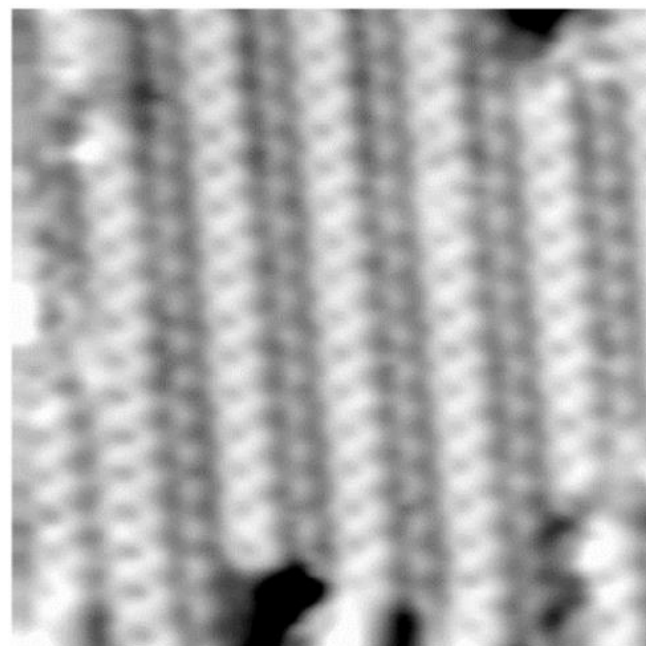
(a)



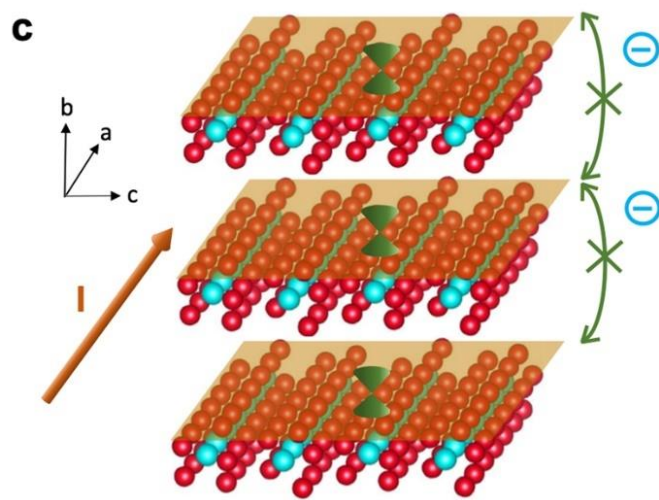
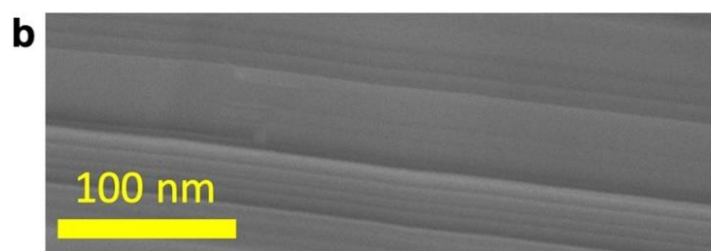
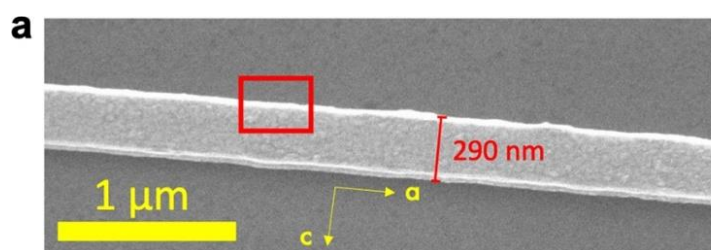
(b)



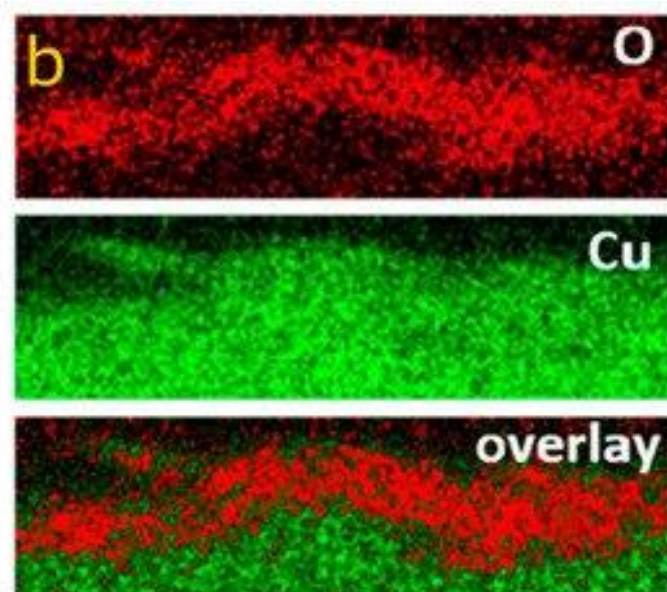
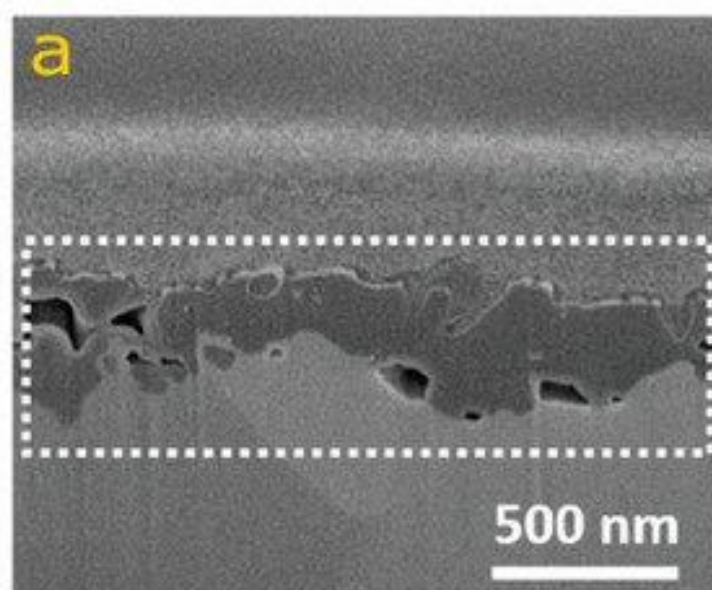
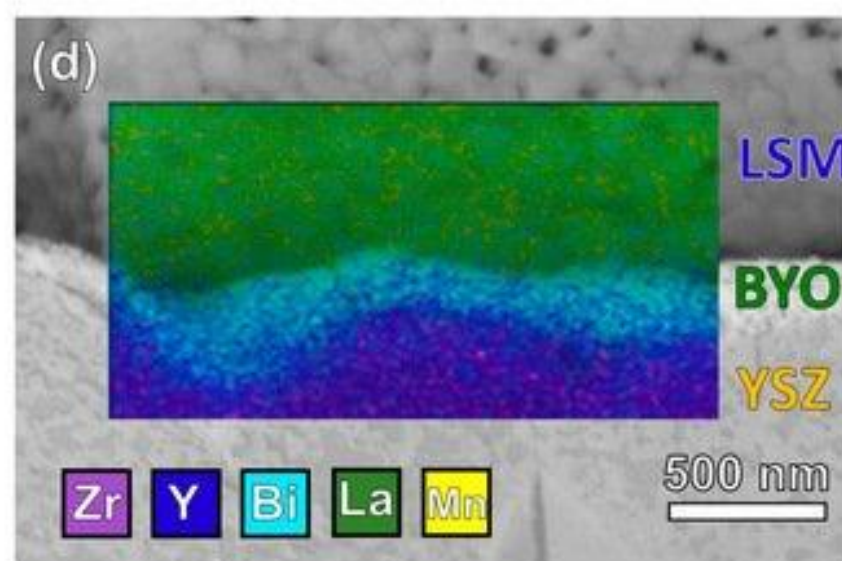
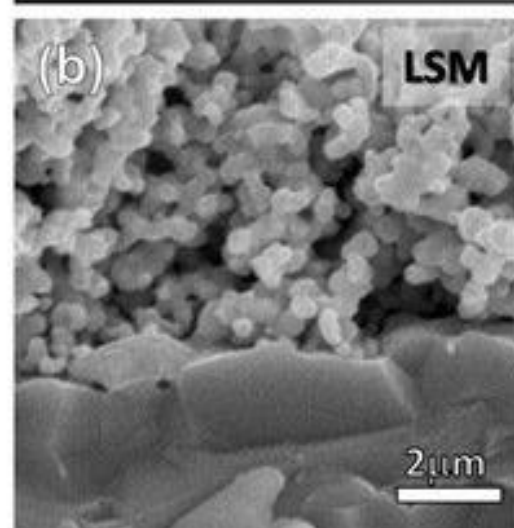
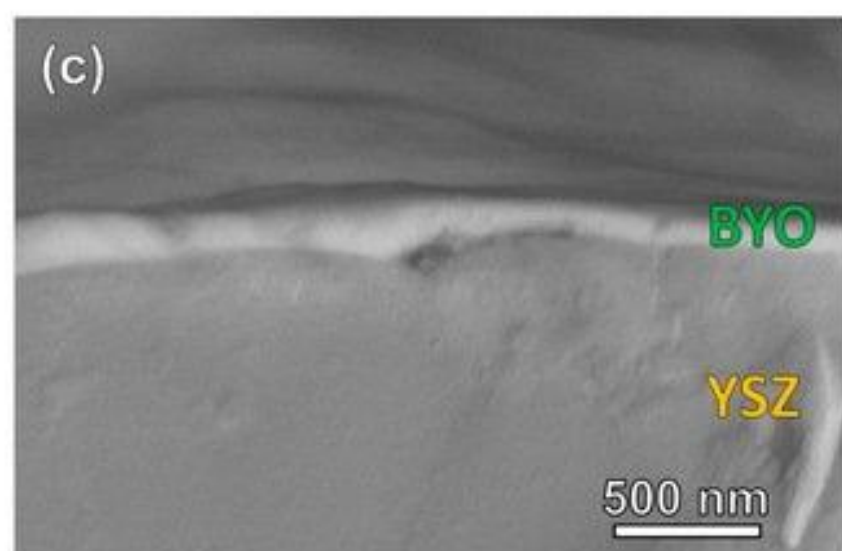
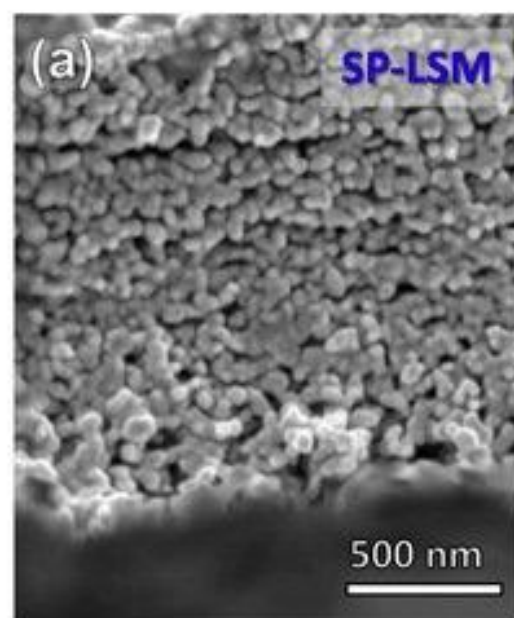
(c)

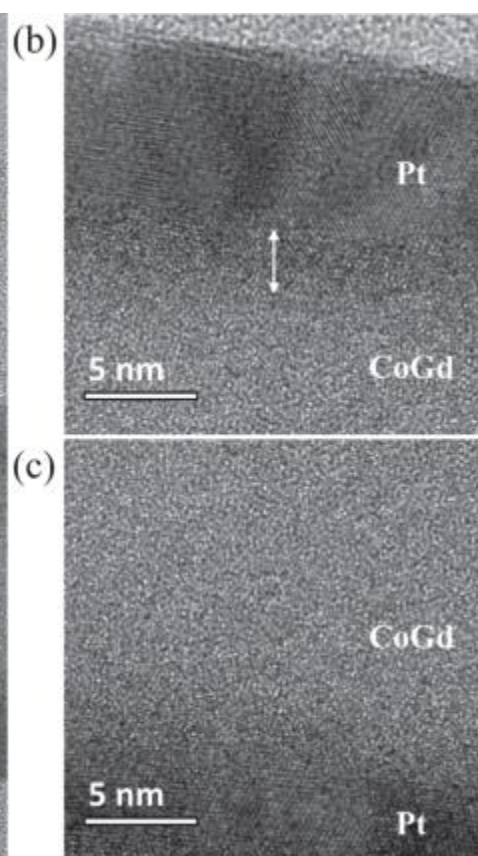
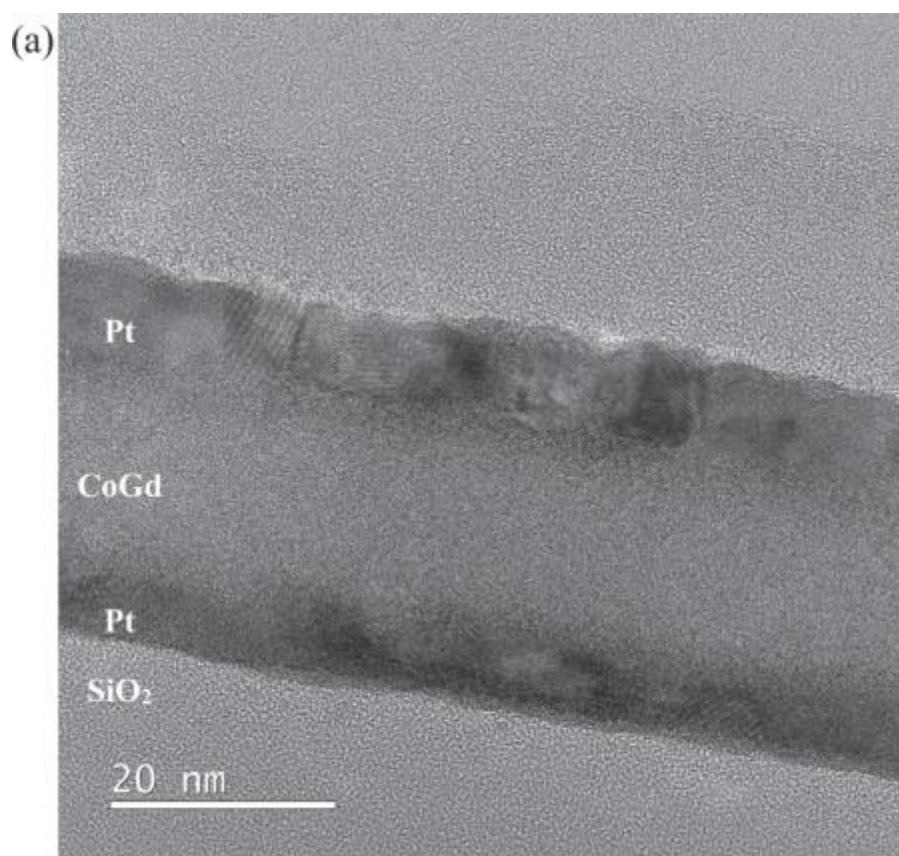
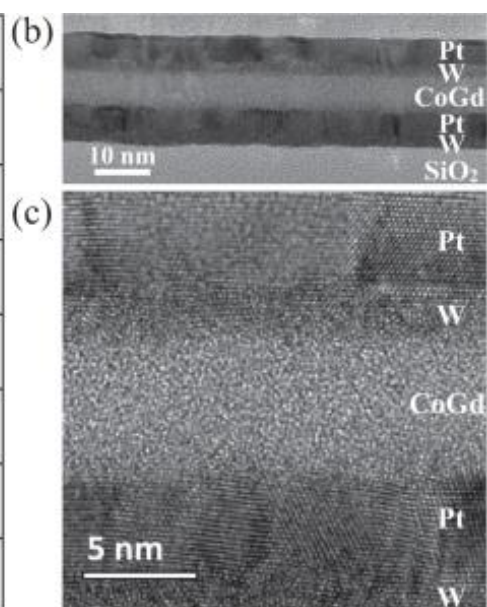
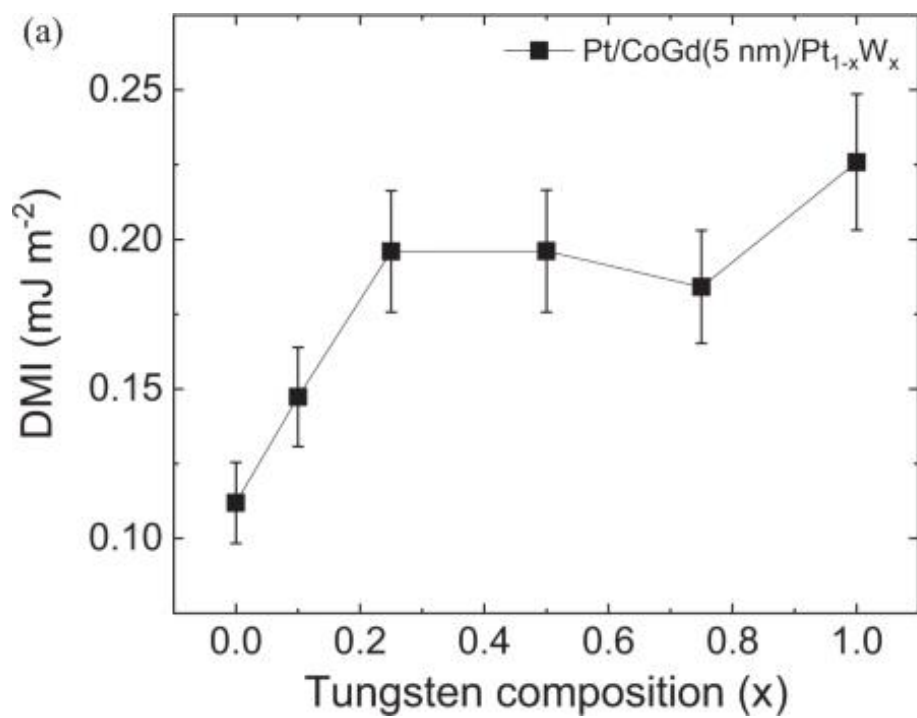


(d)

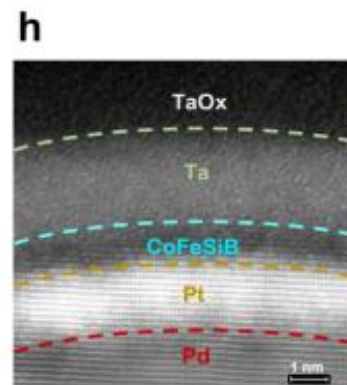
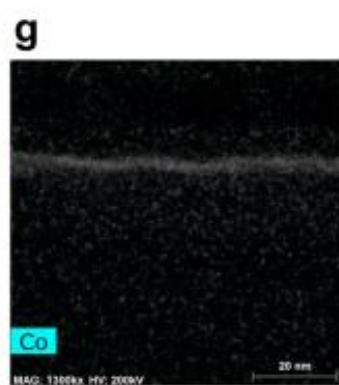
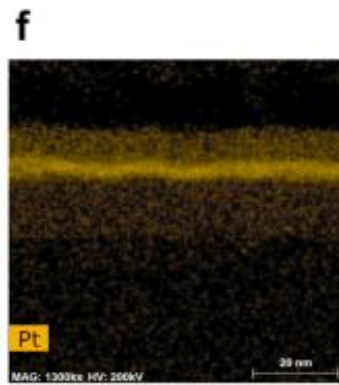
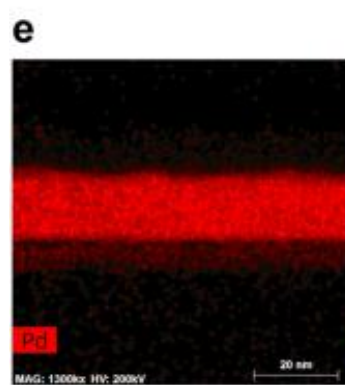
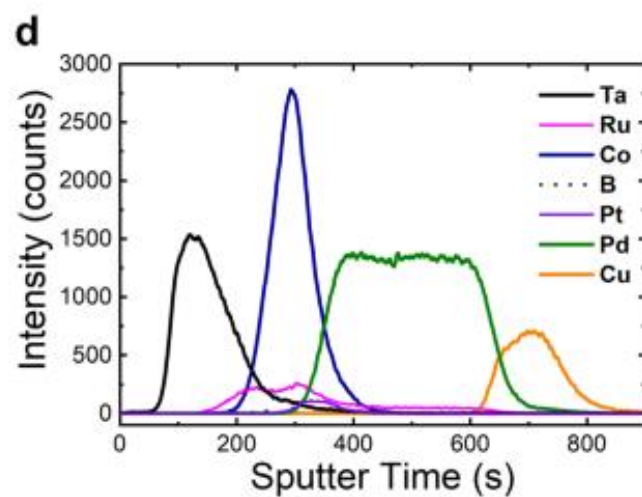
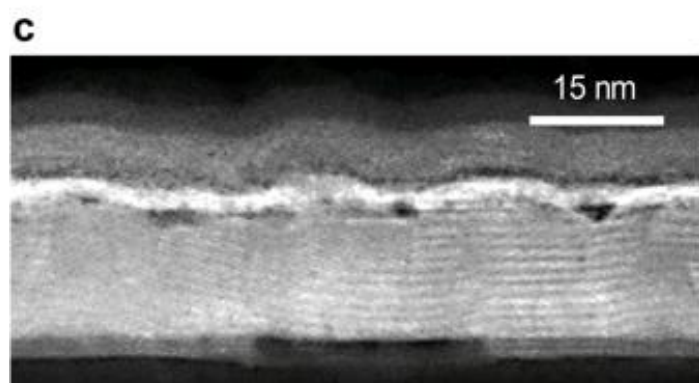
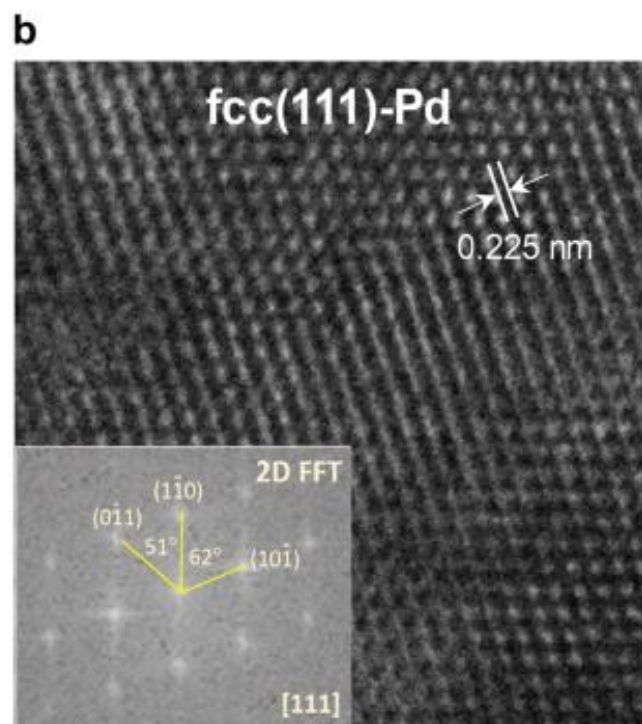
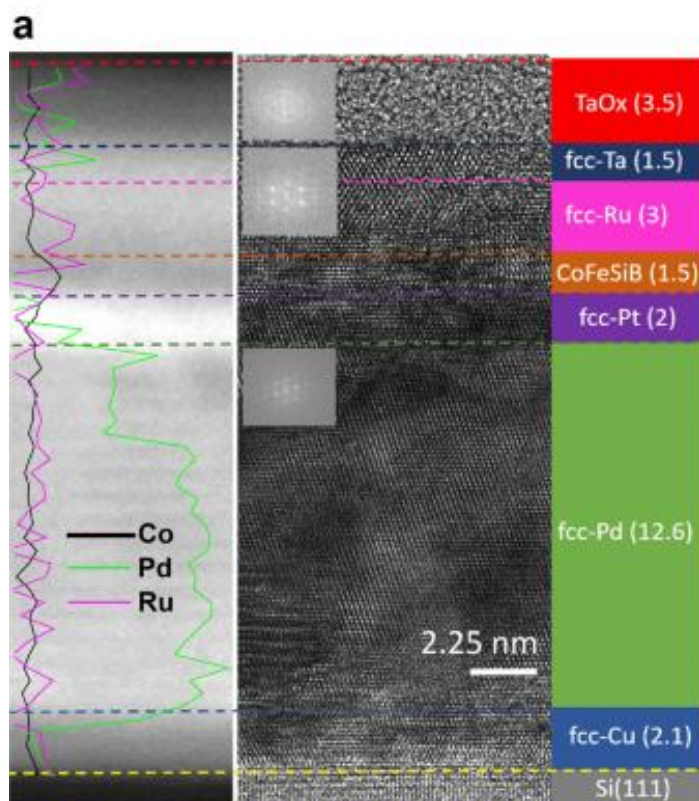


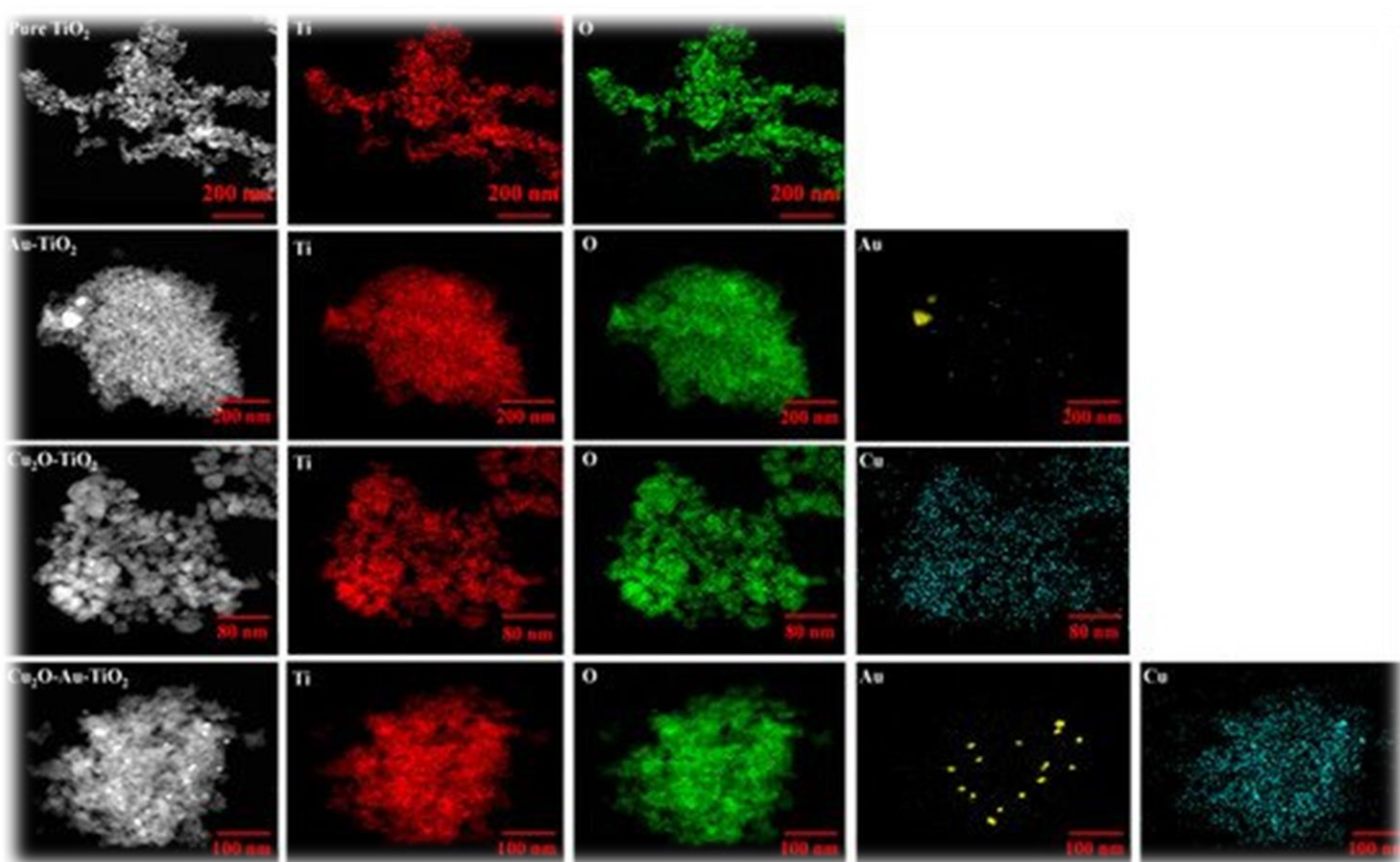
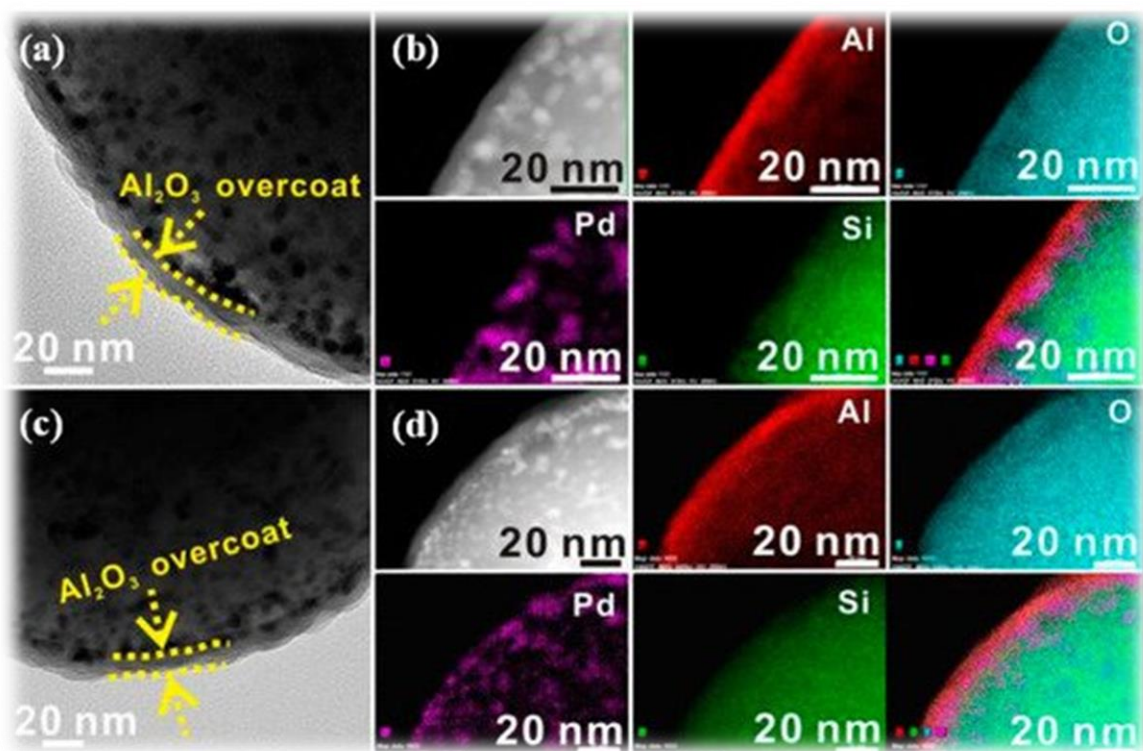




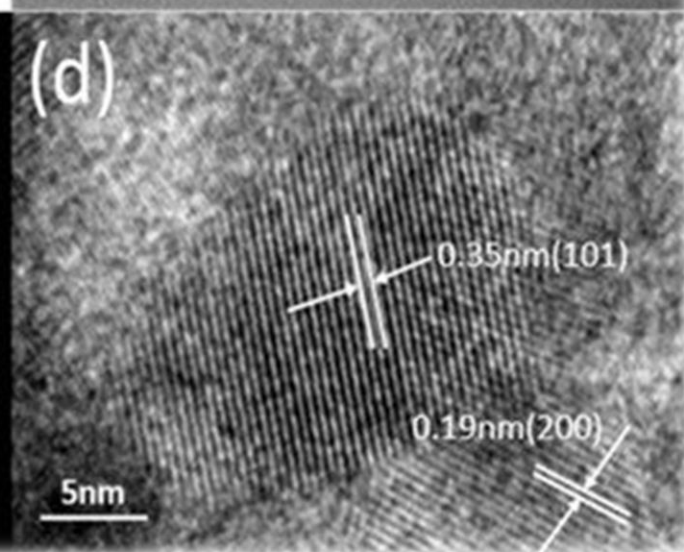
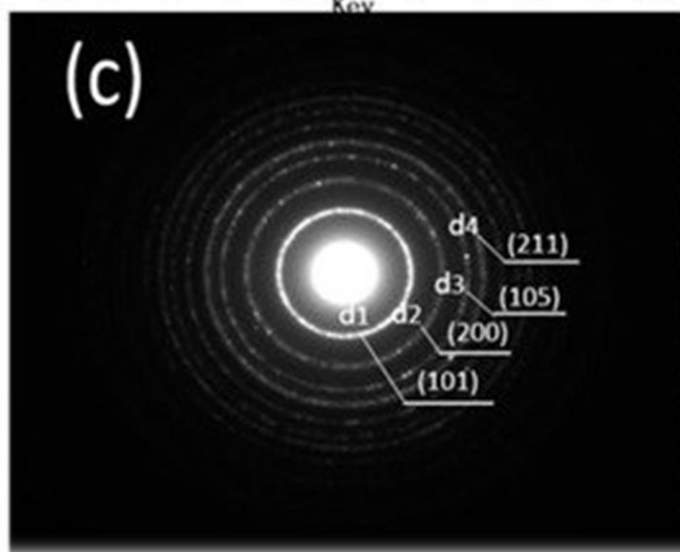
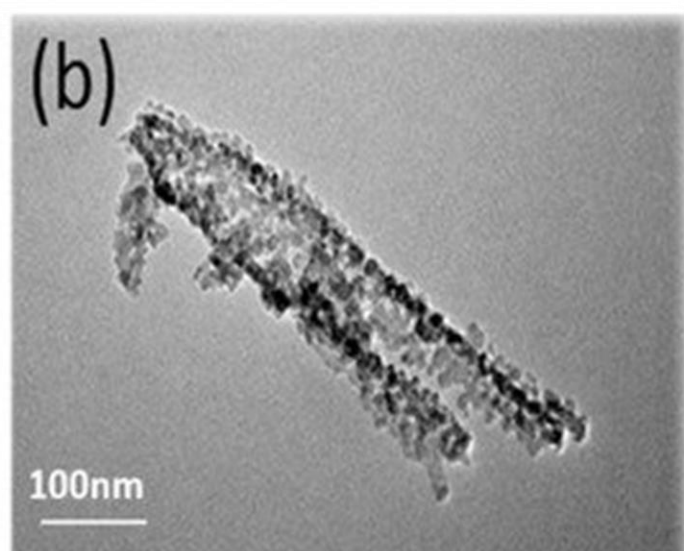
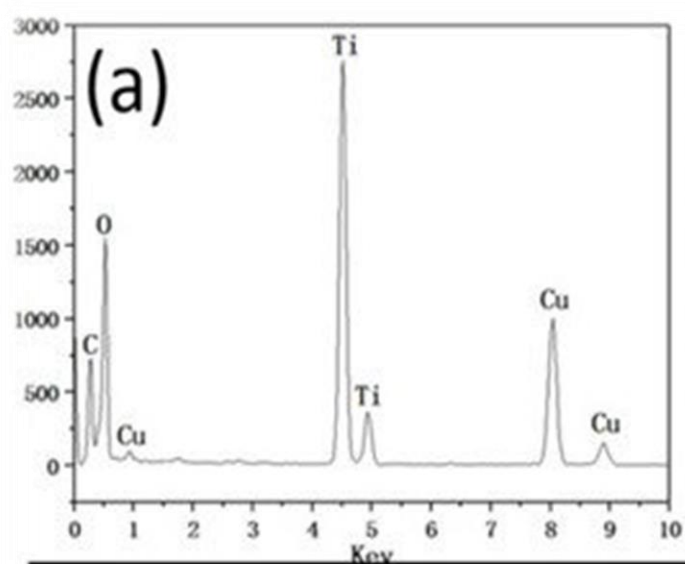
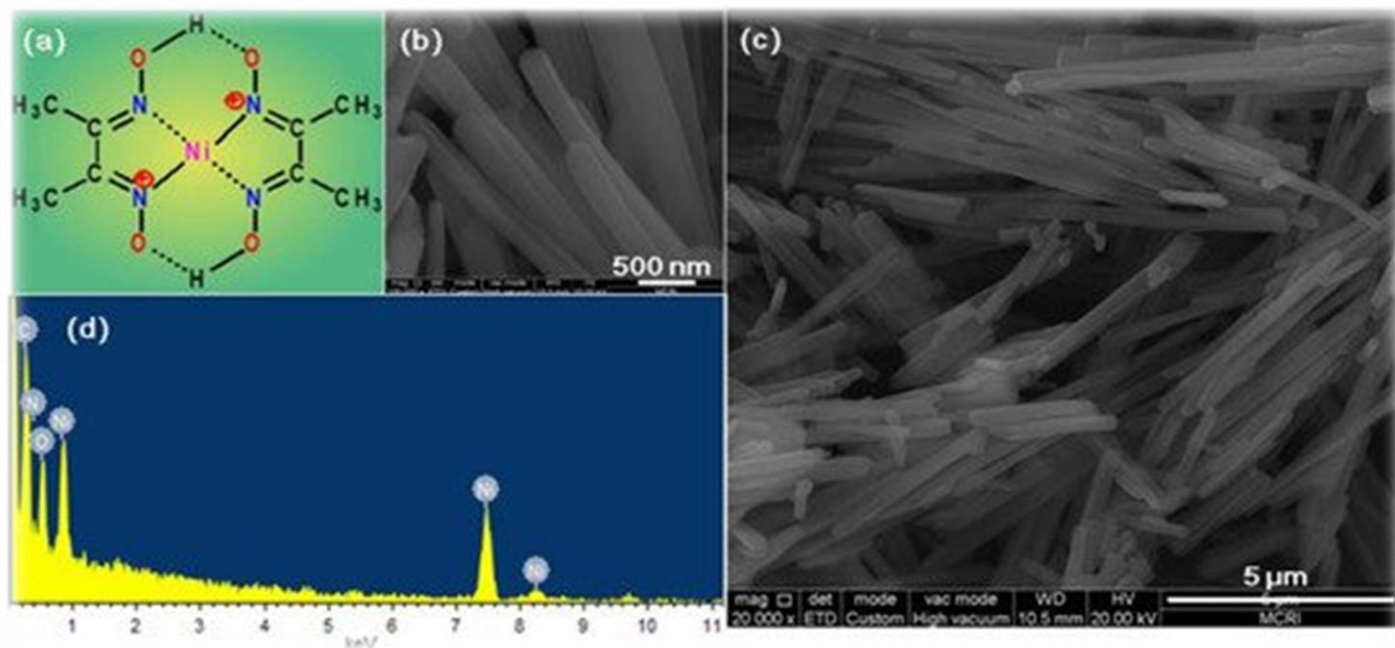




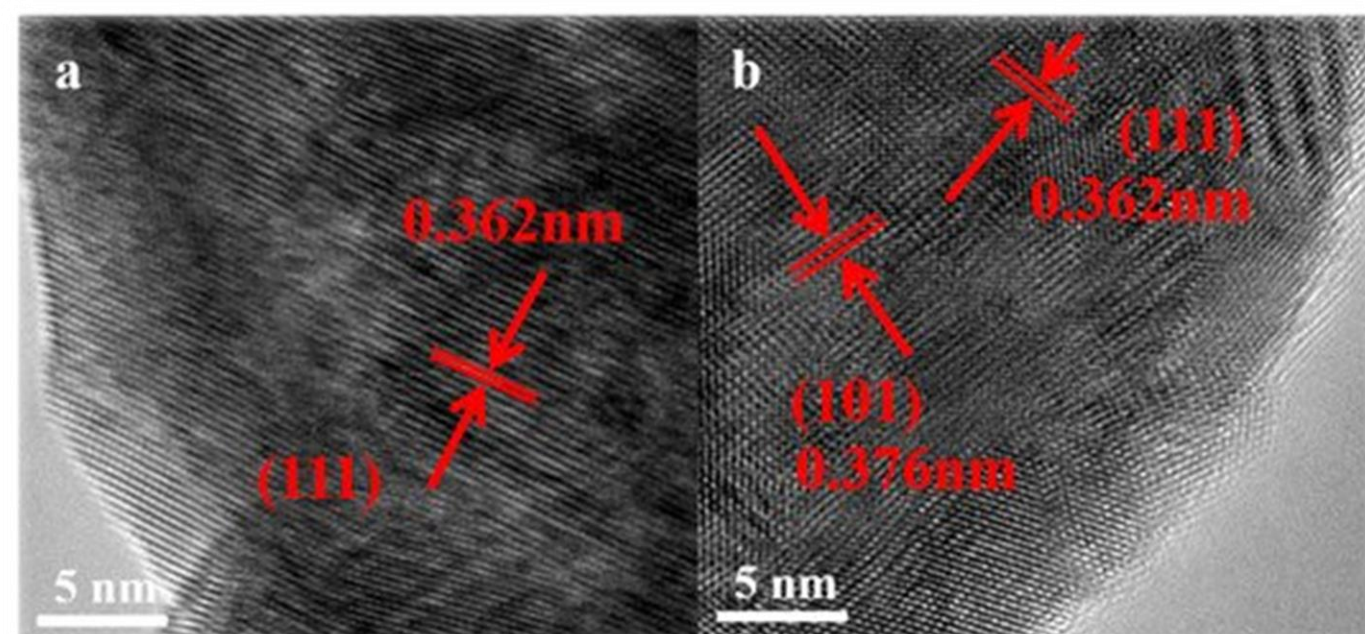
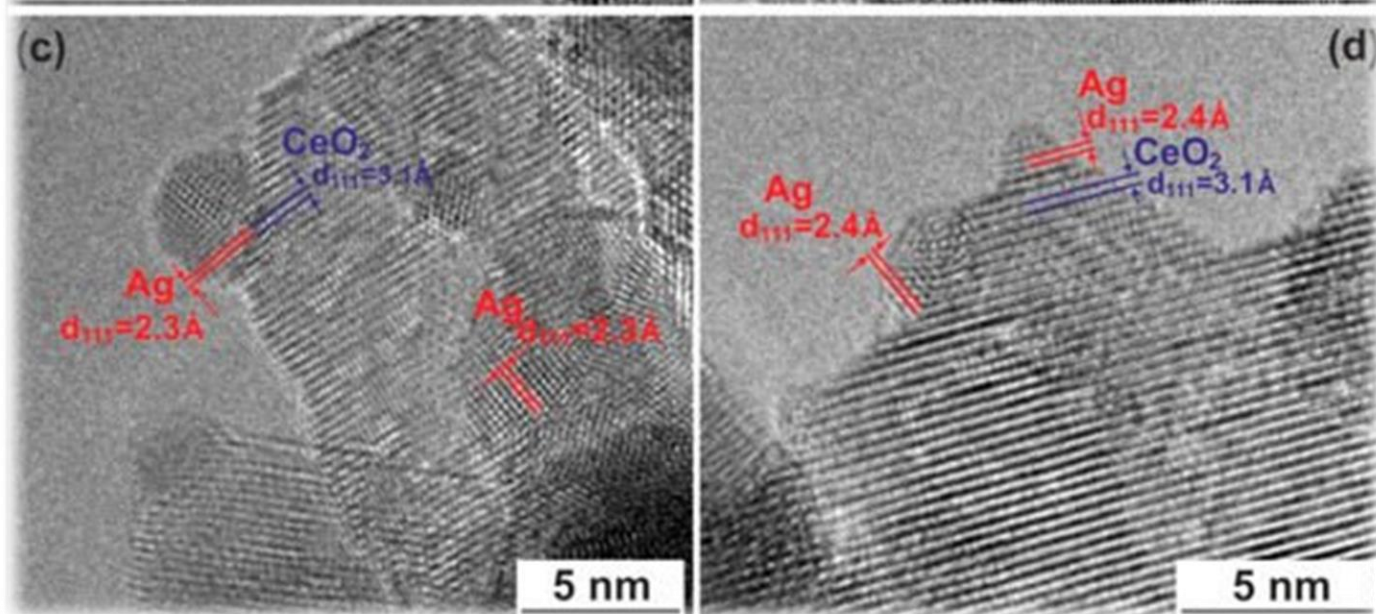
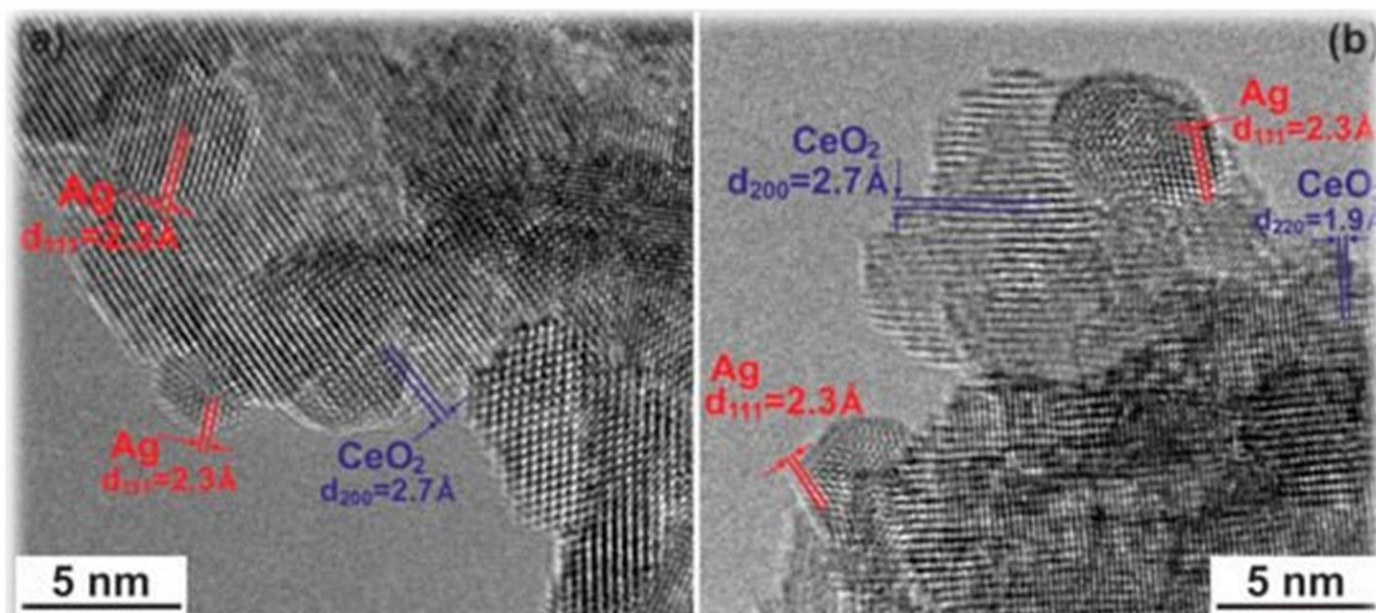




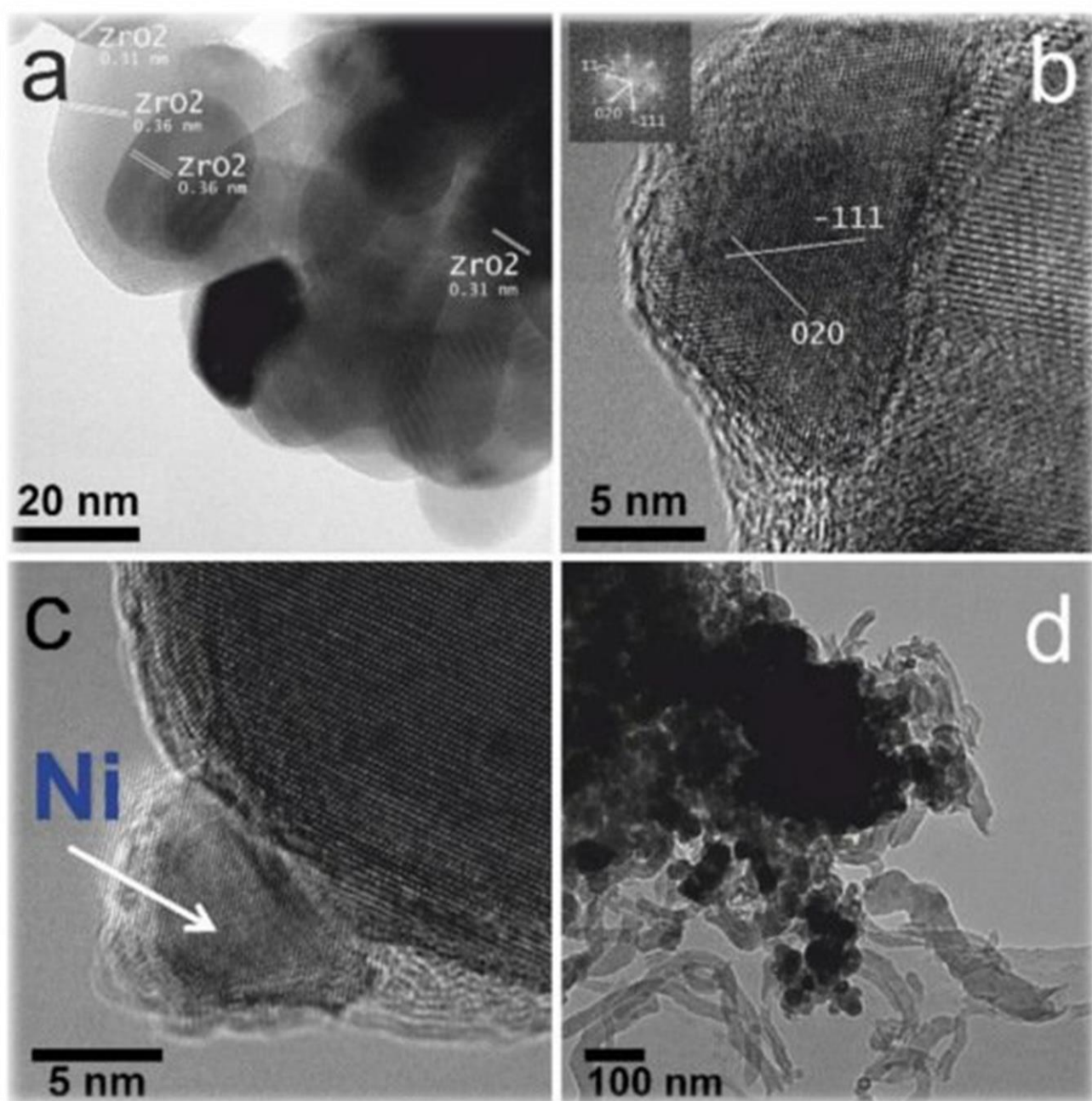
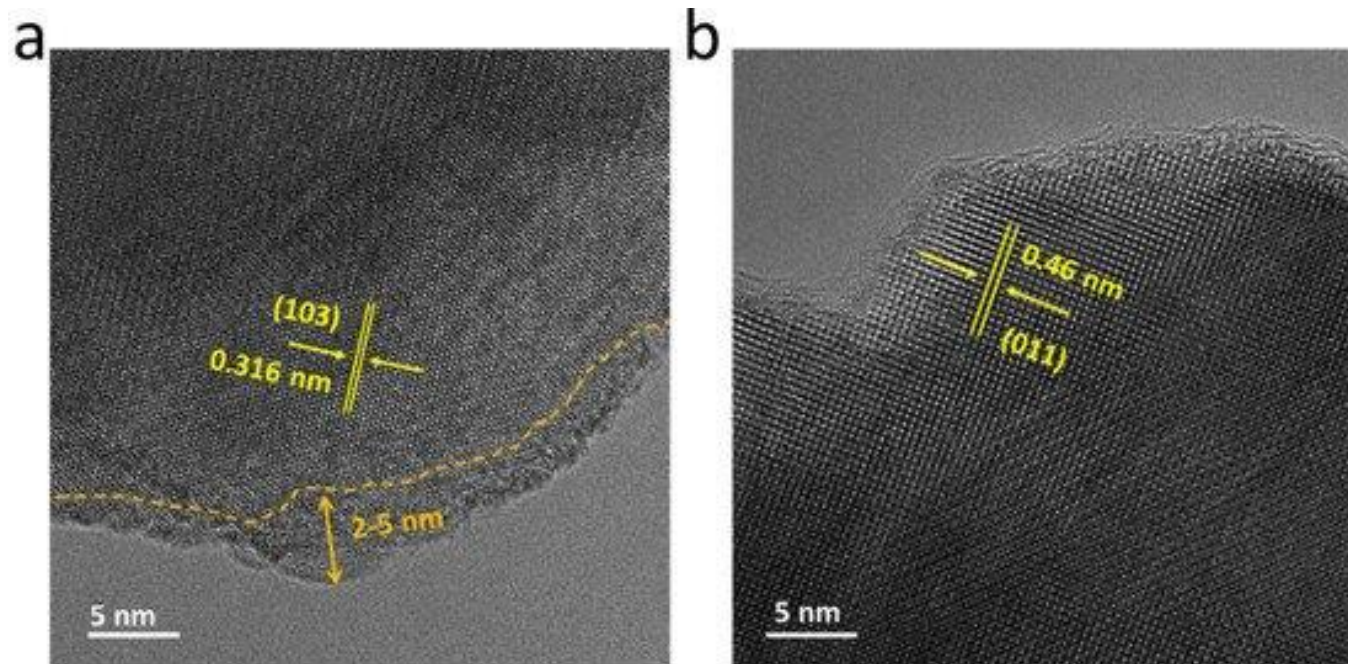




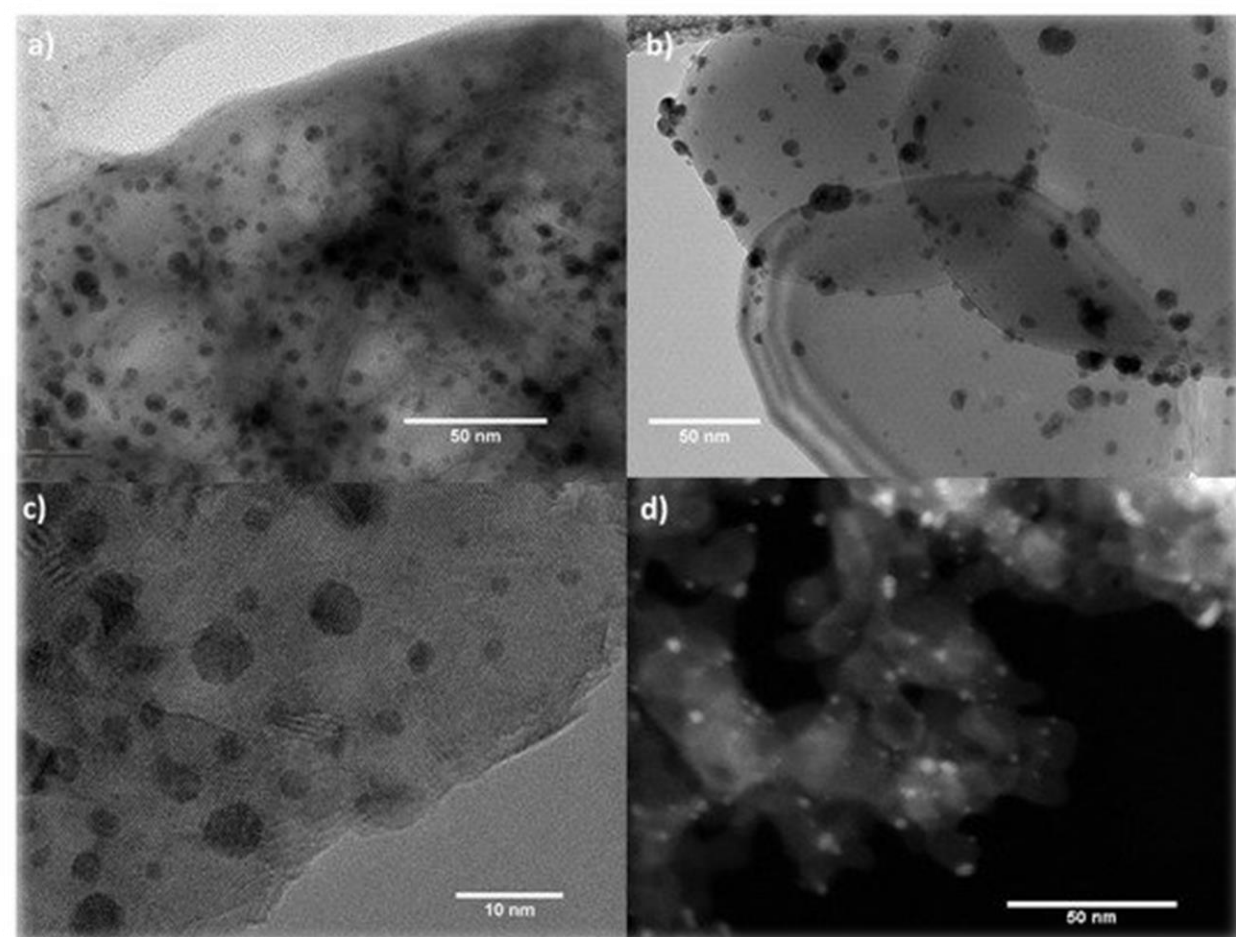
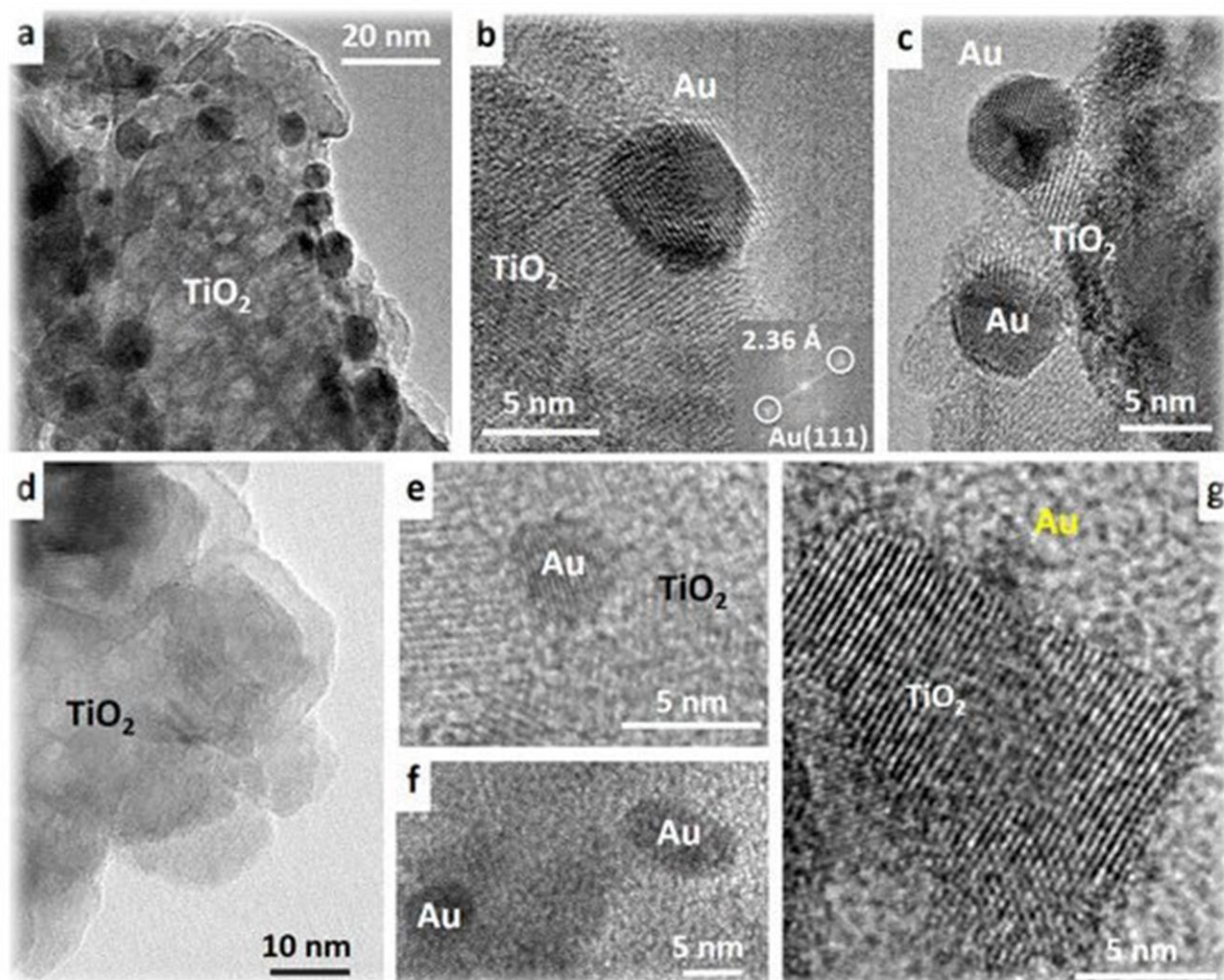




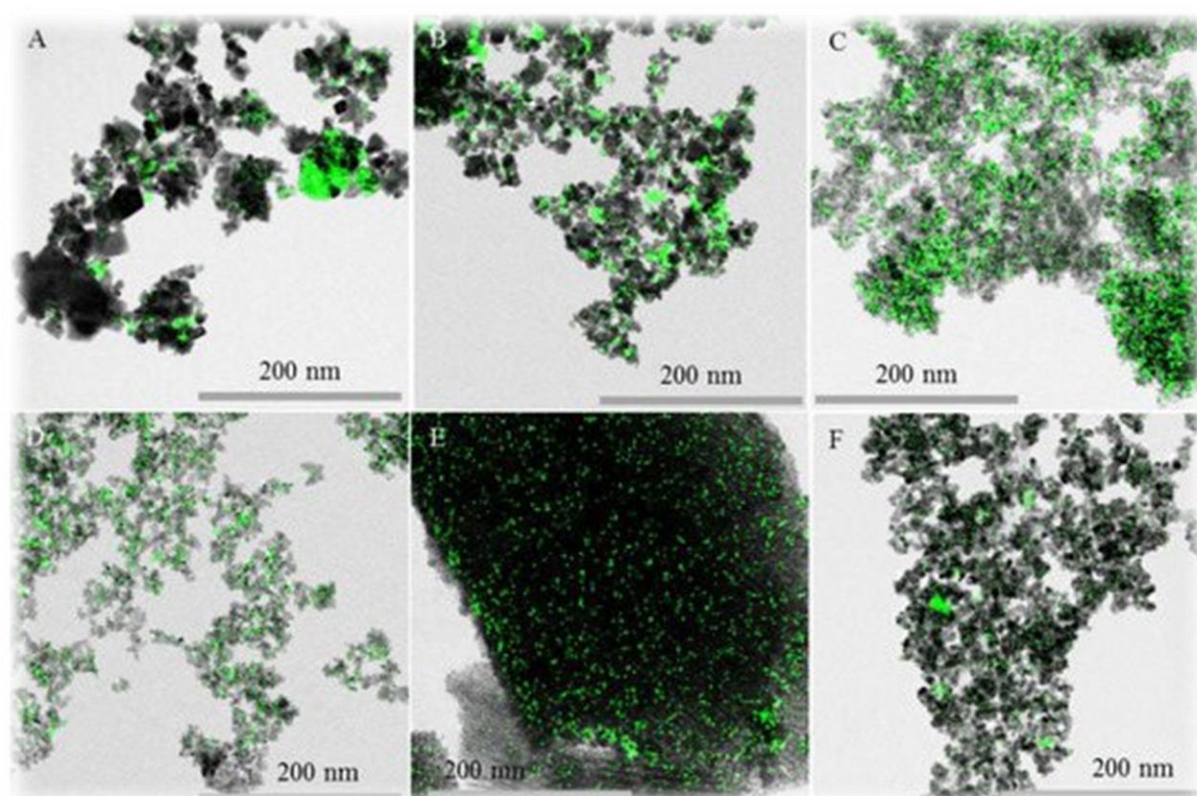
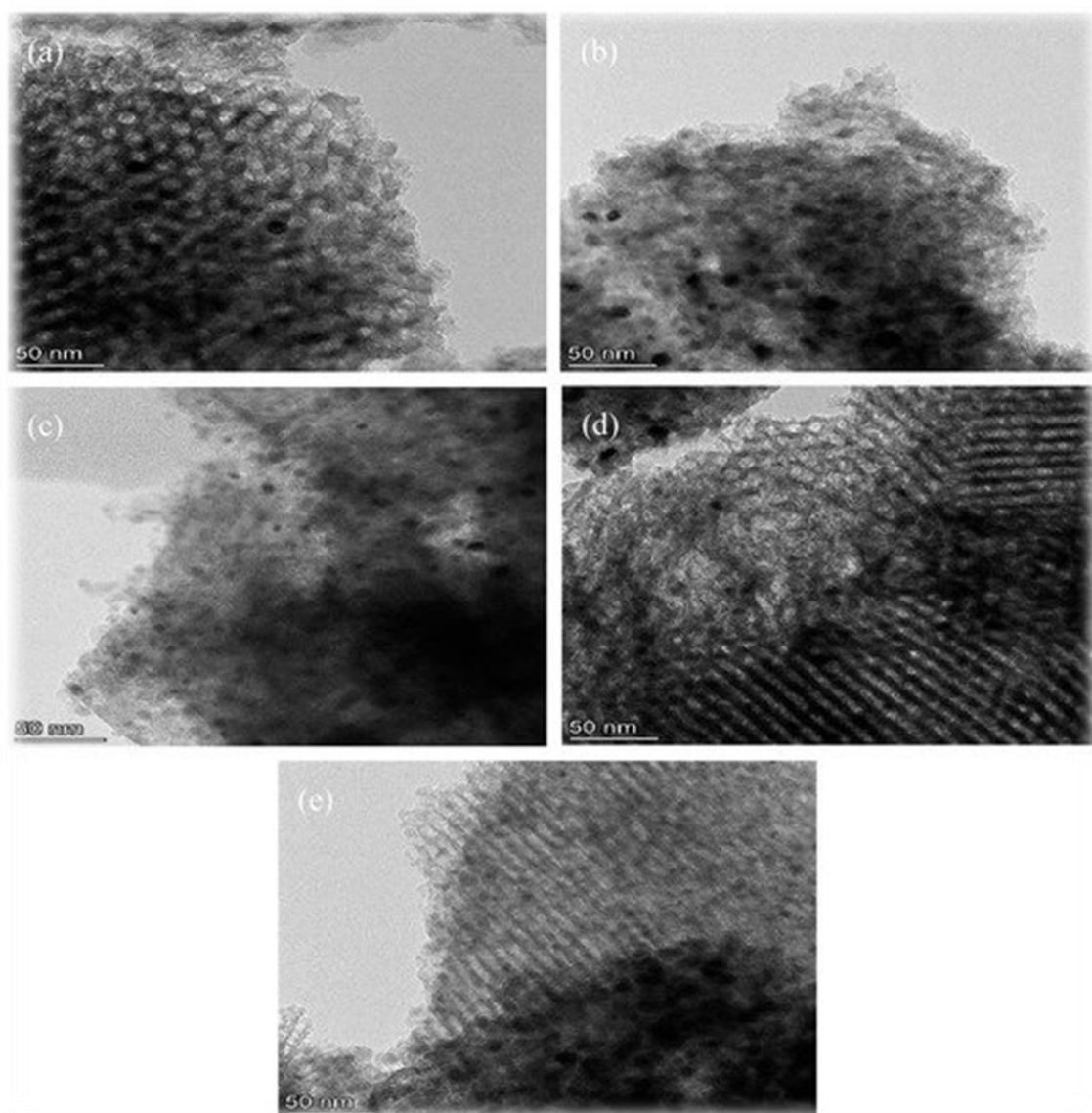


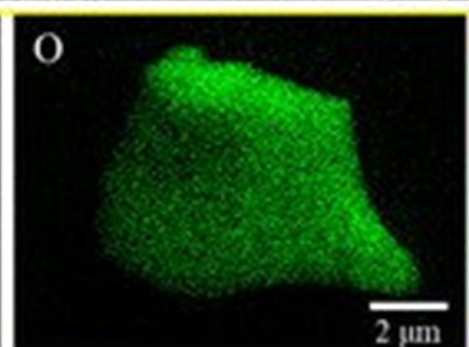
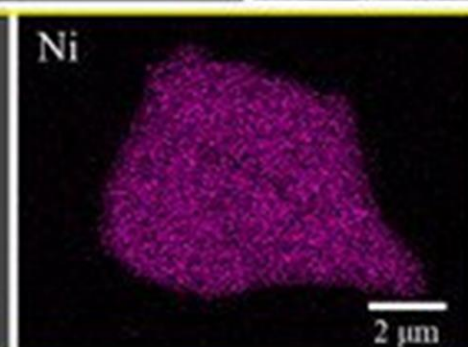
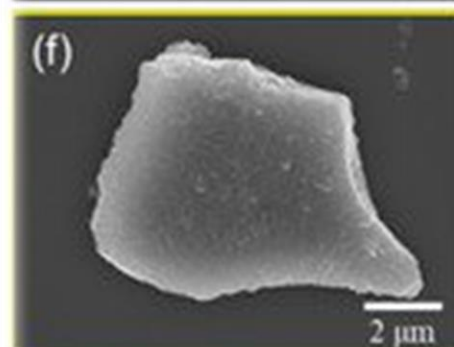
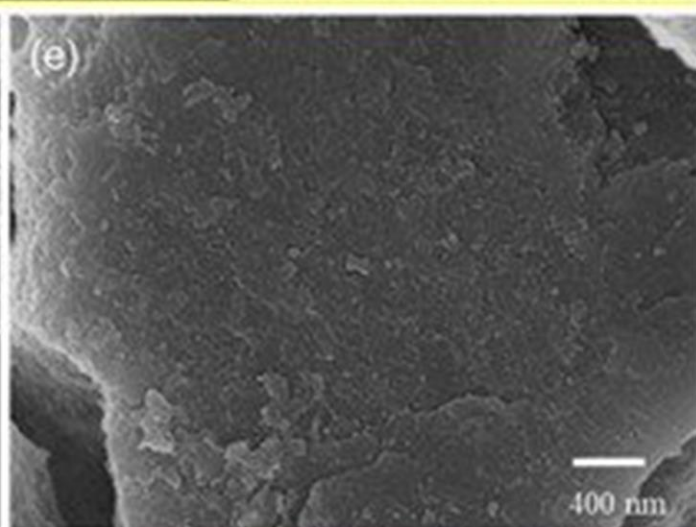
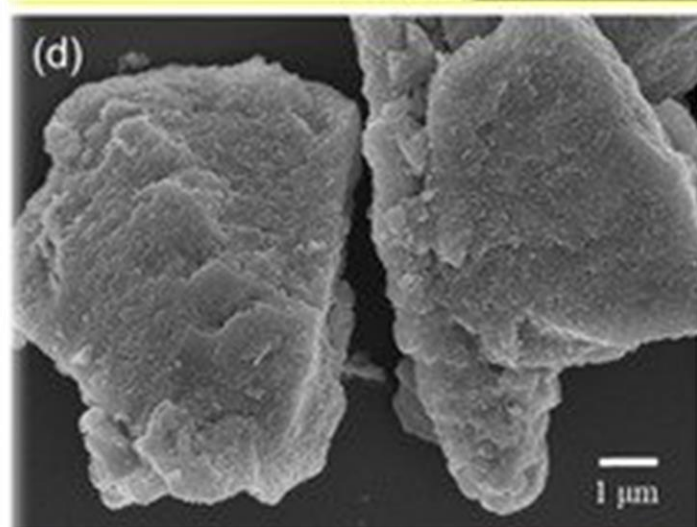
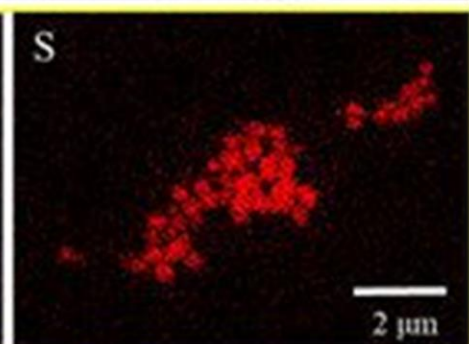
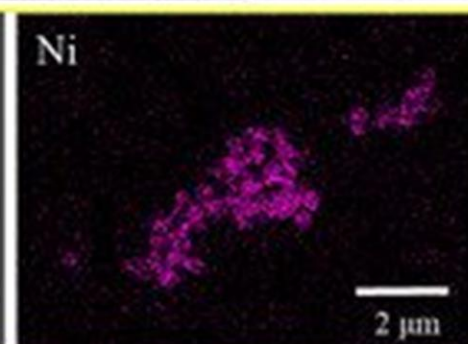
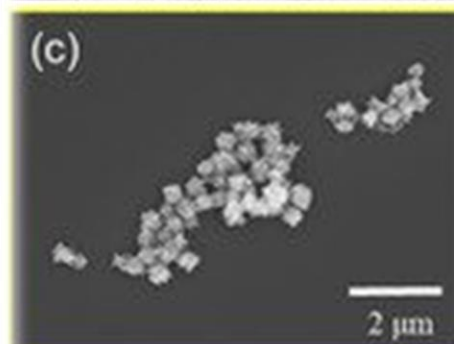
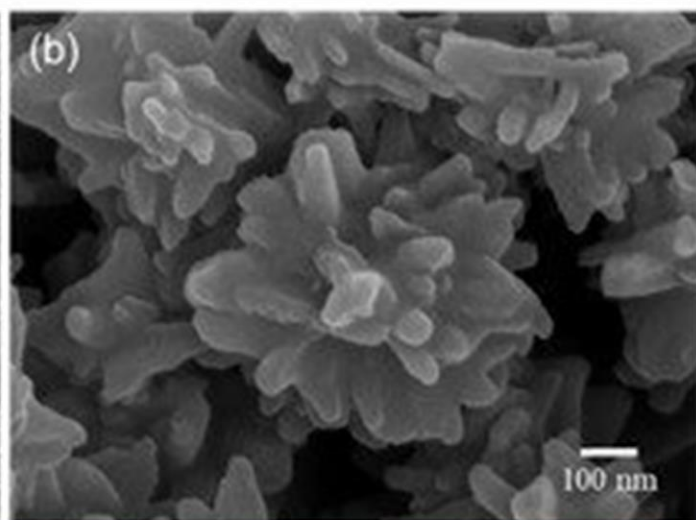
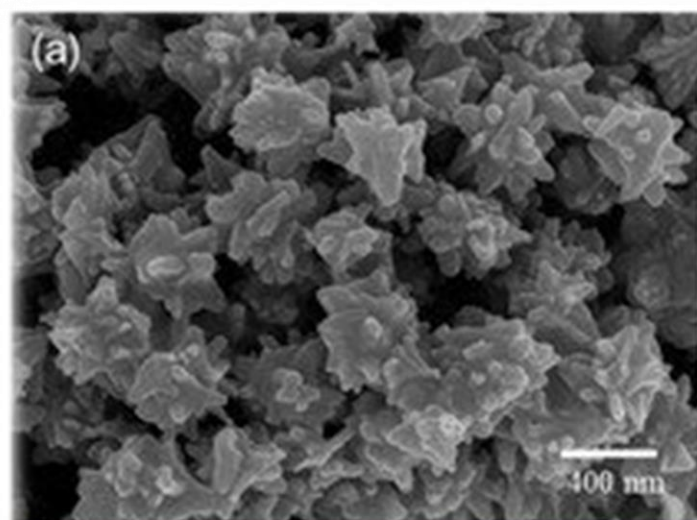




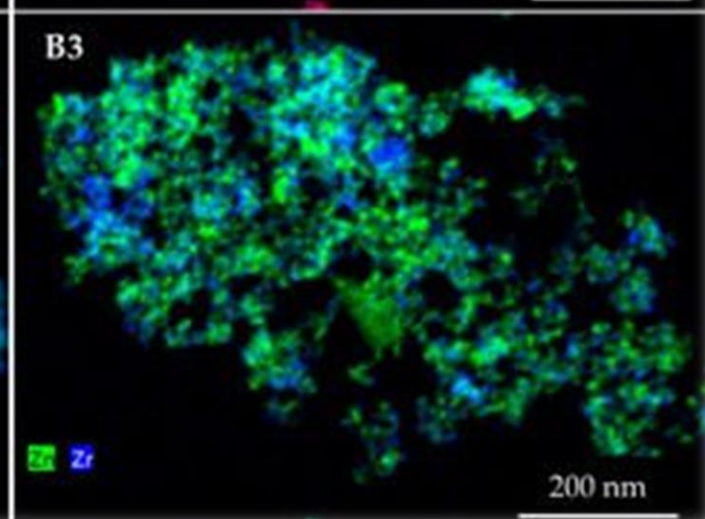
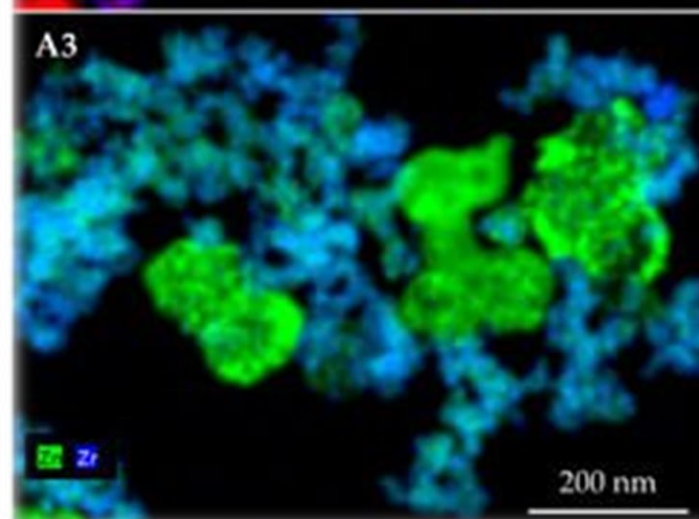
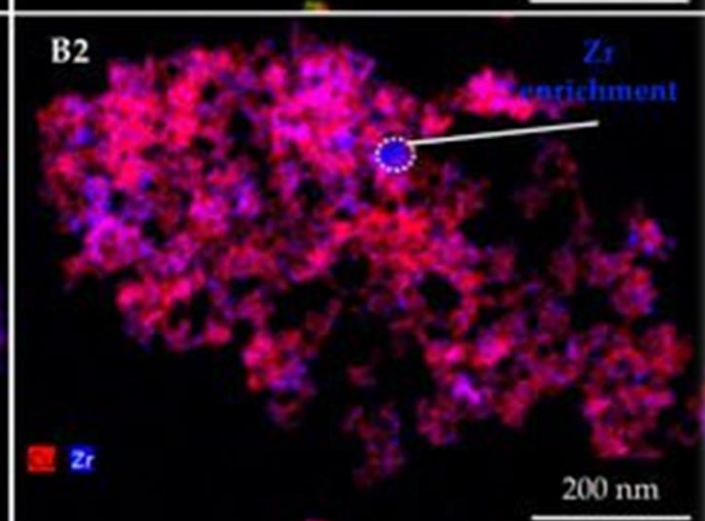
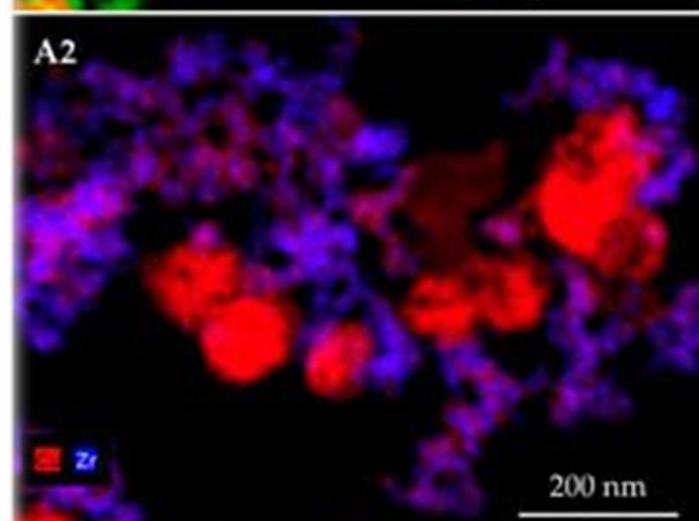
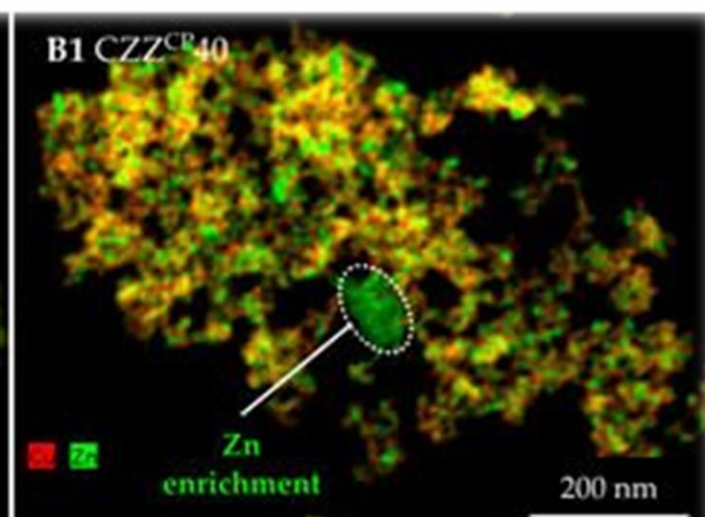
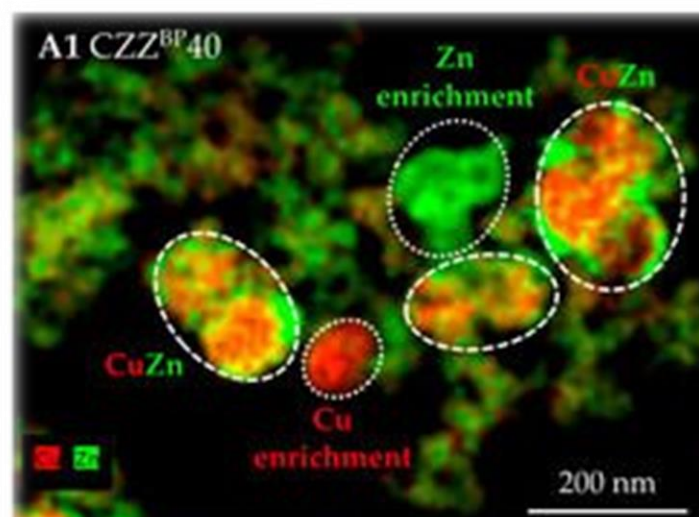




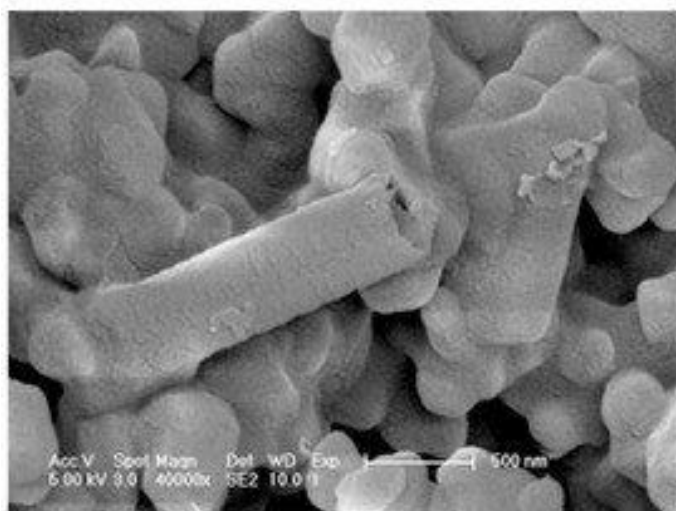
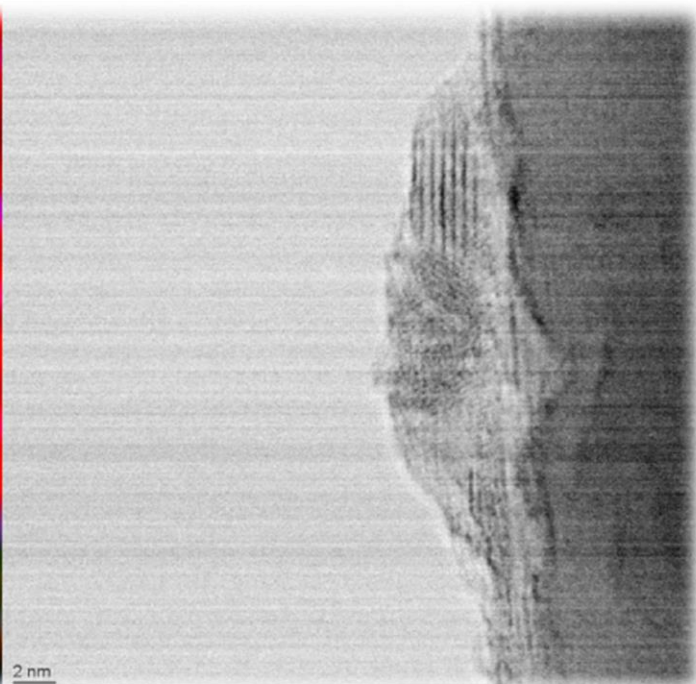
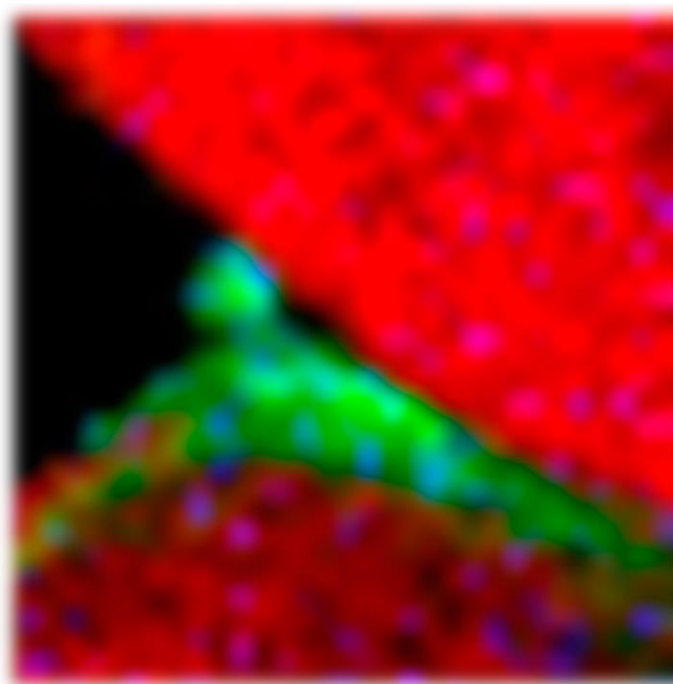




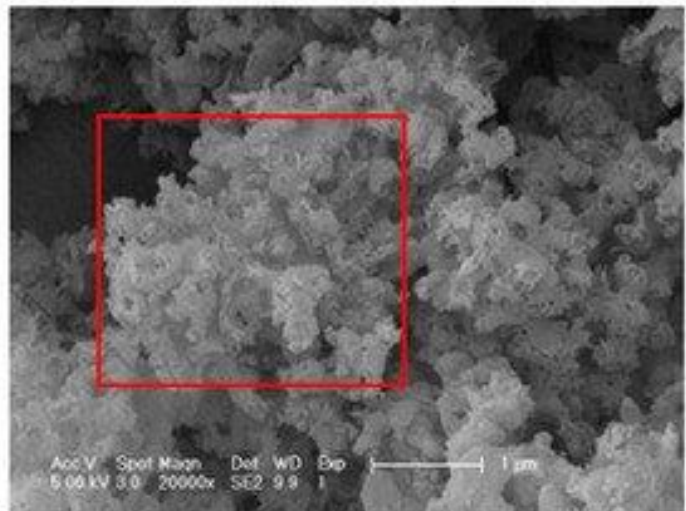




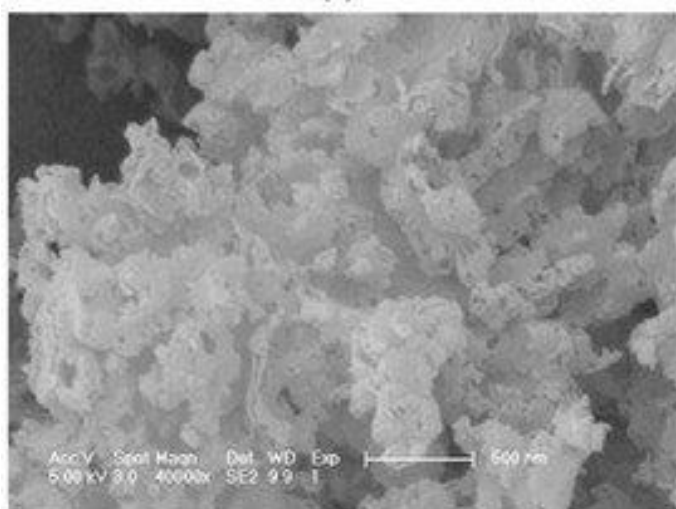




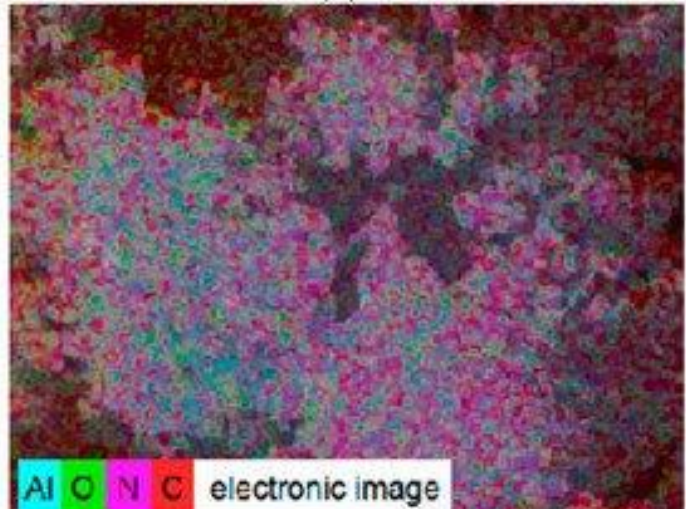
(a)



(b)

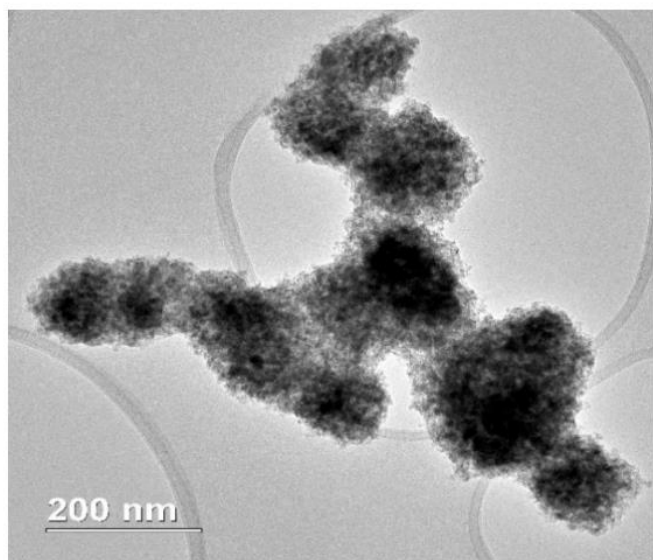


(c)

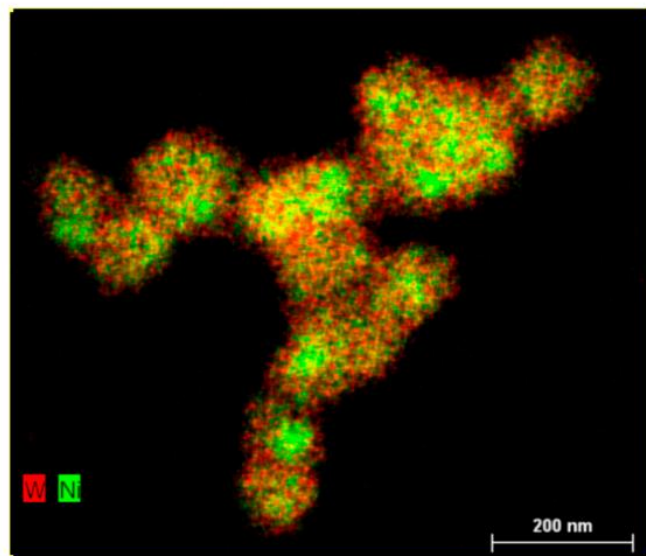


(d)

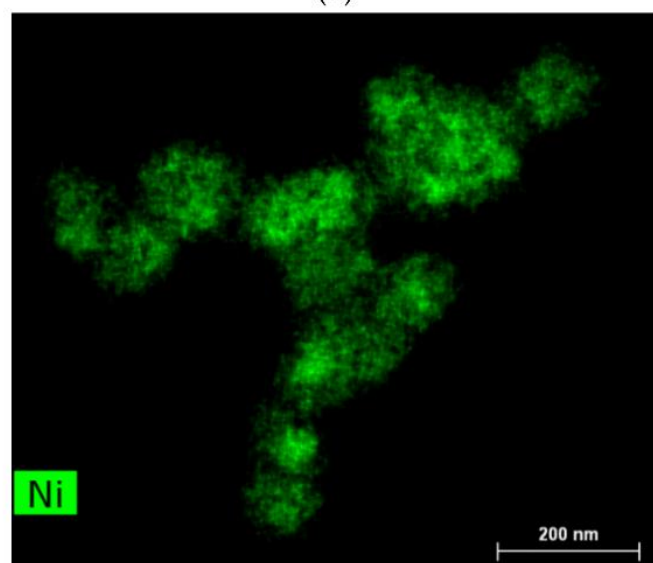




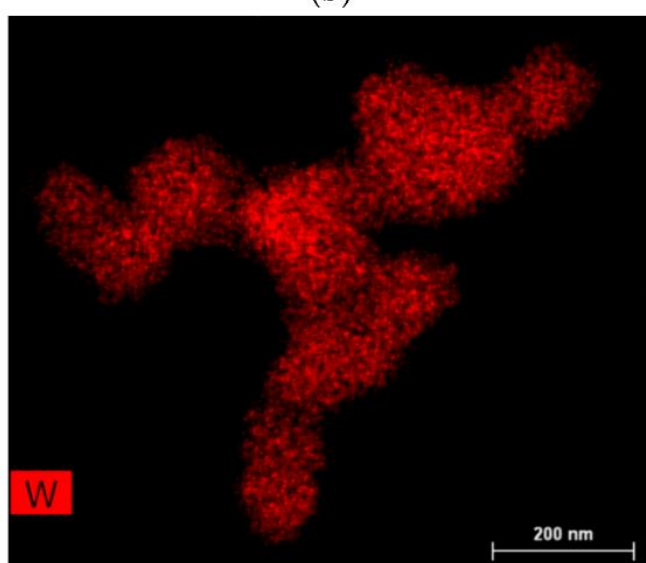
(a)



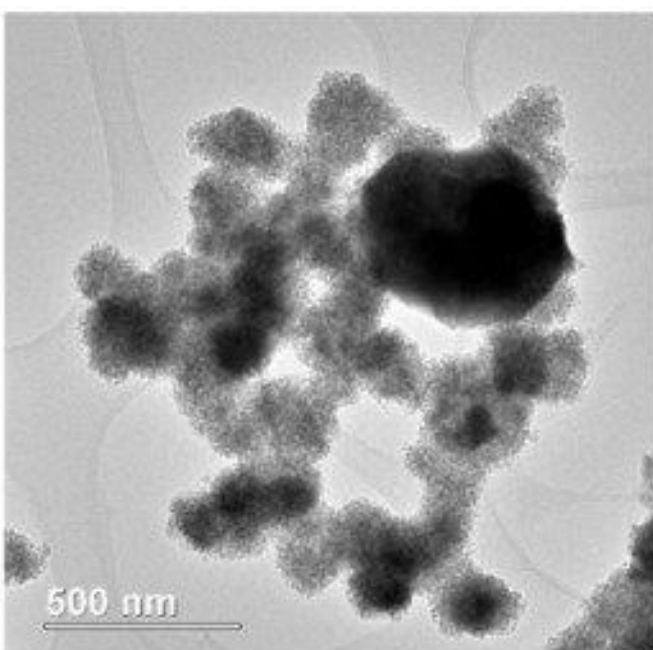
(b)



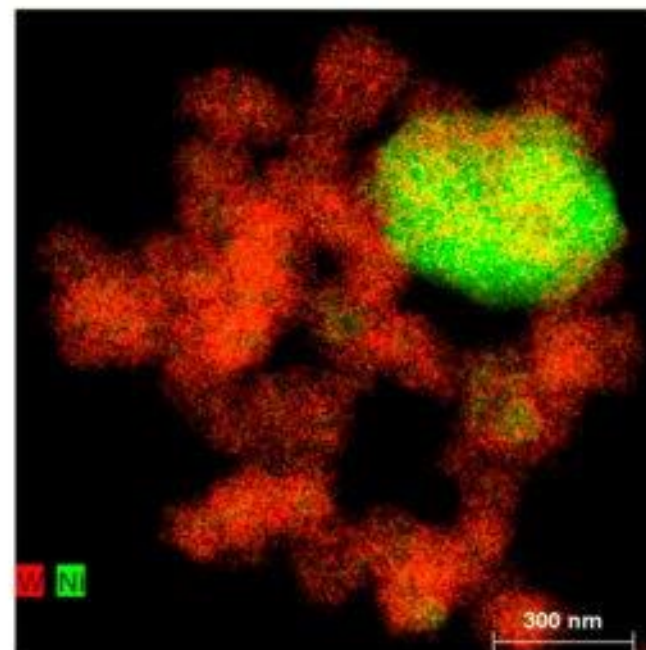
(c)



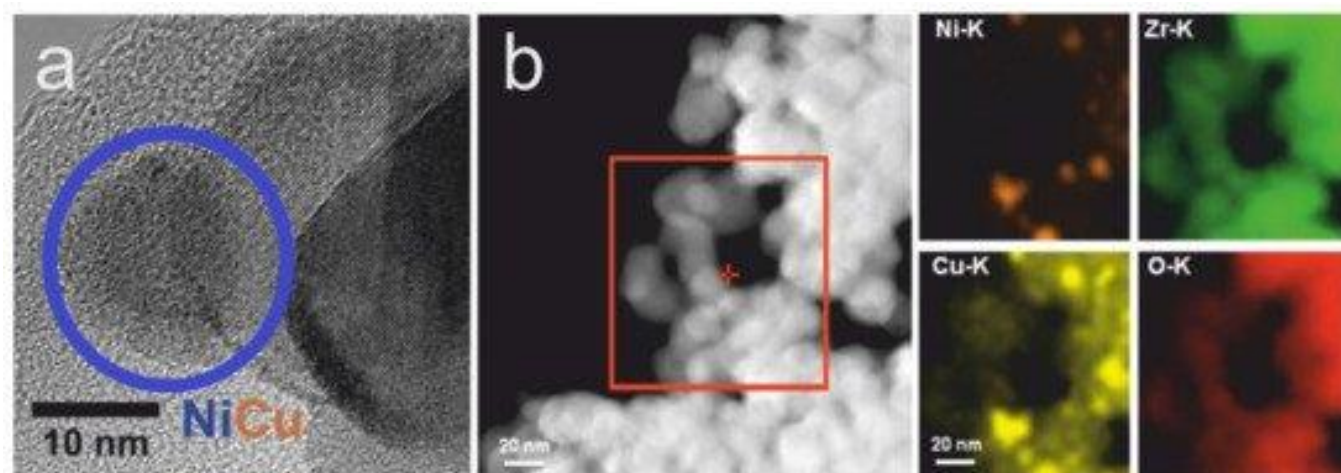
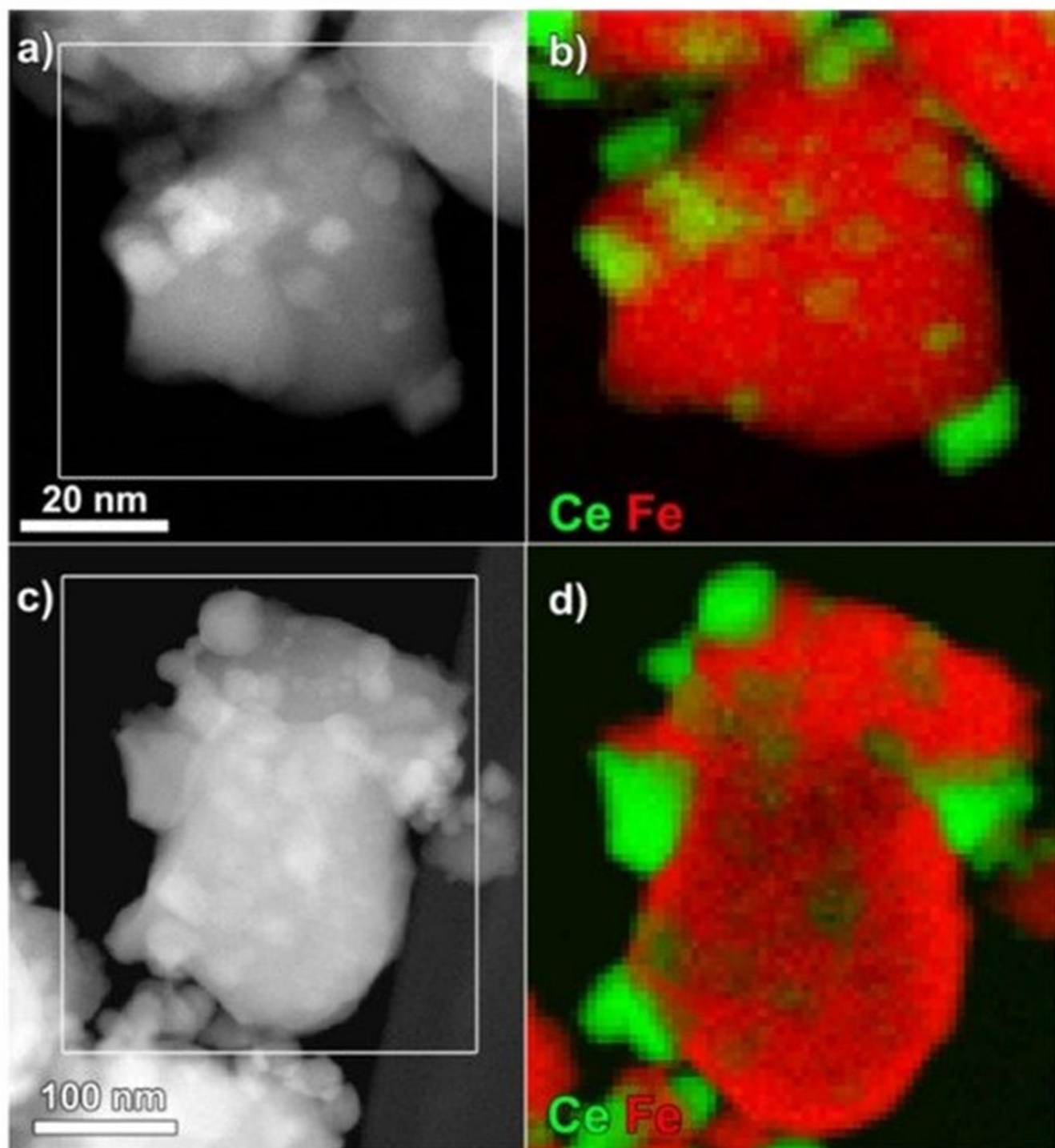
(d)



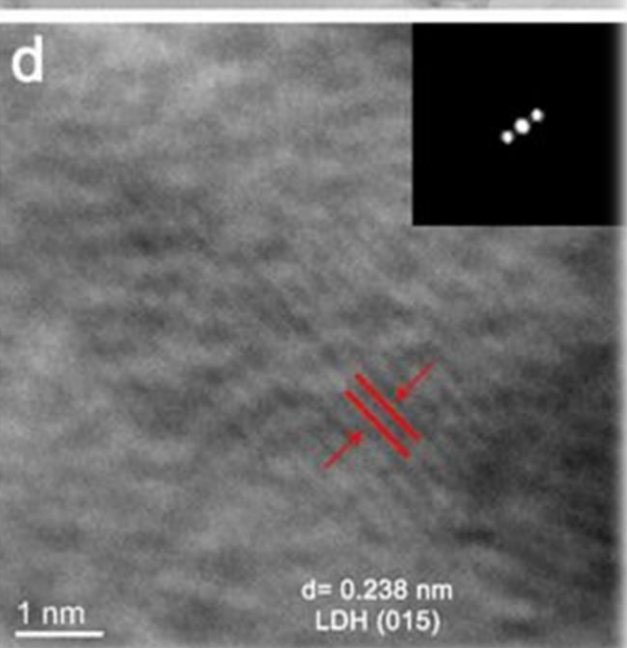
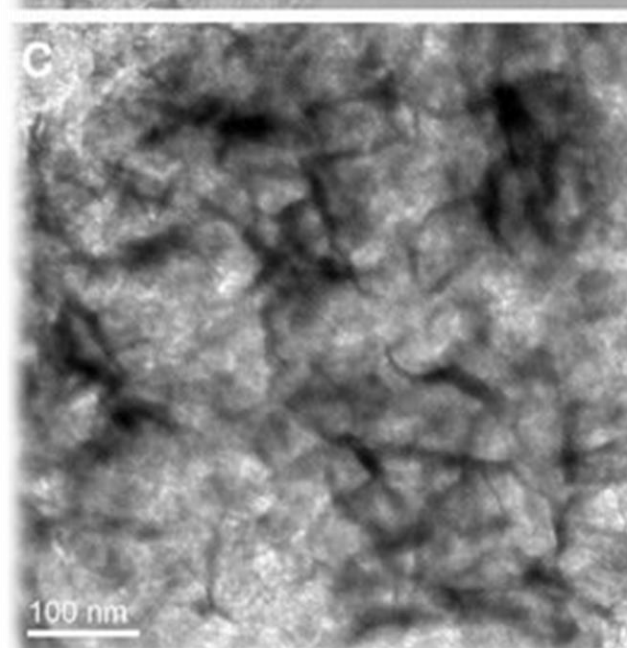
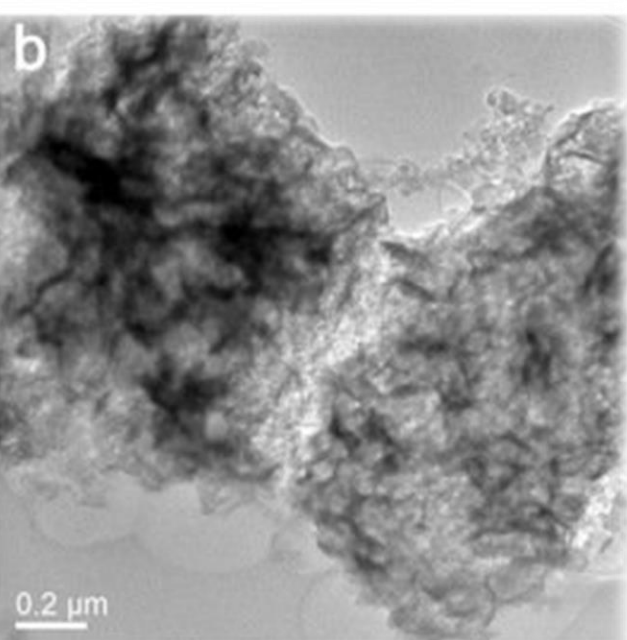
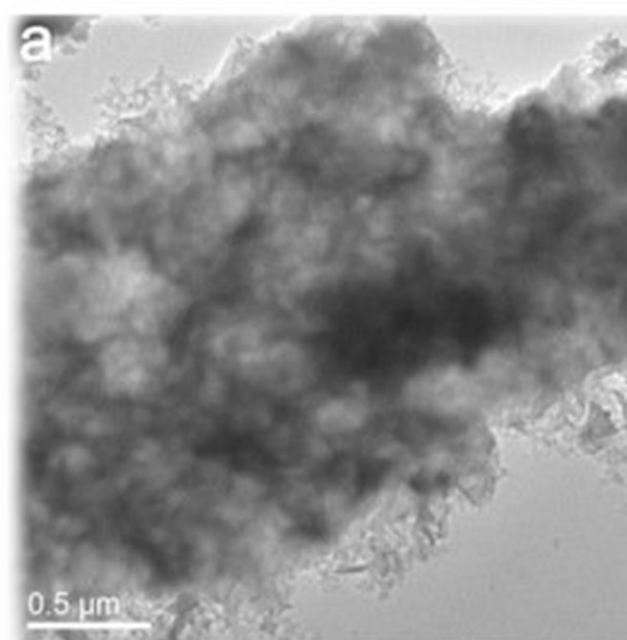
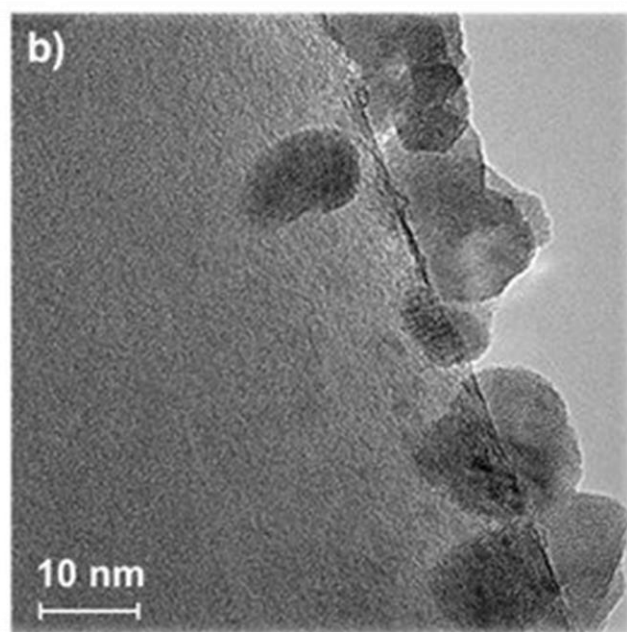
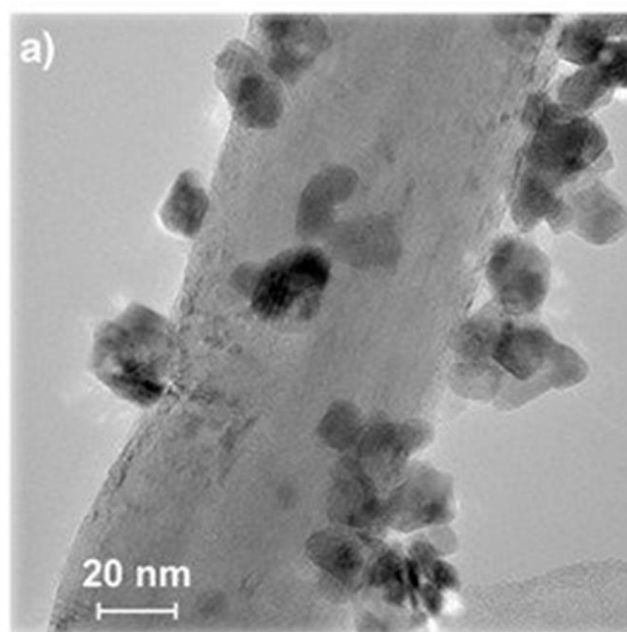
(a)

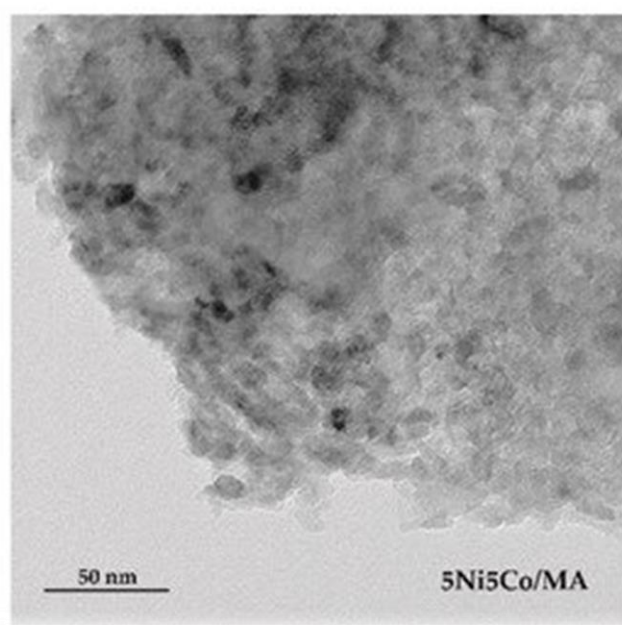
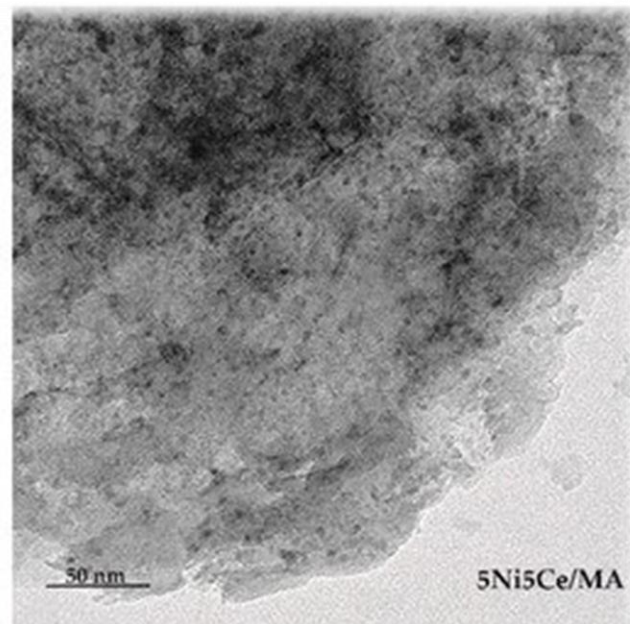
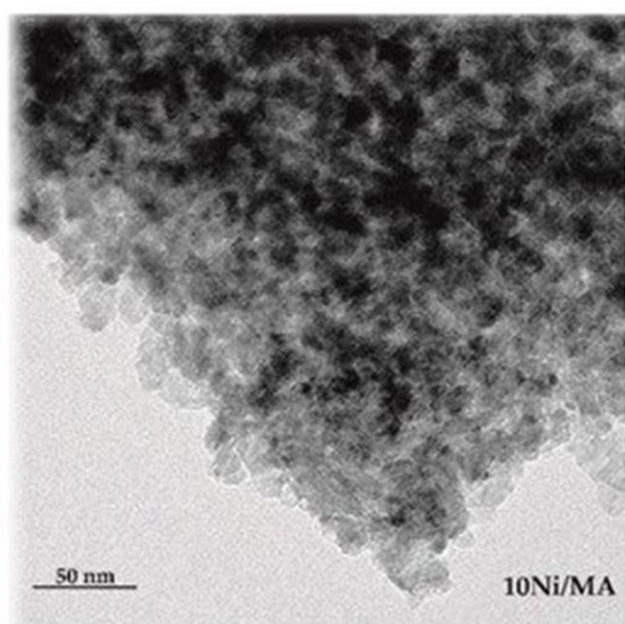
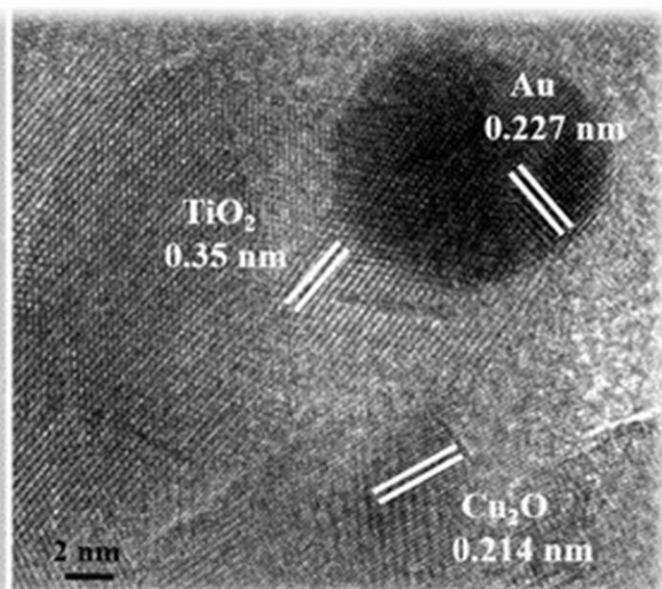
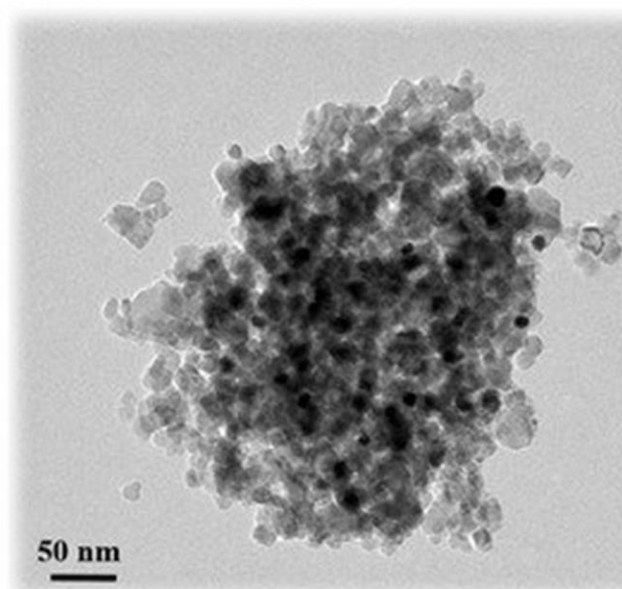


(b)

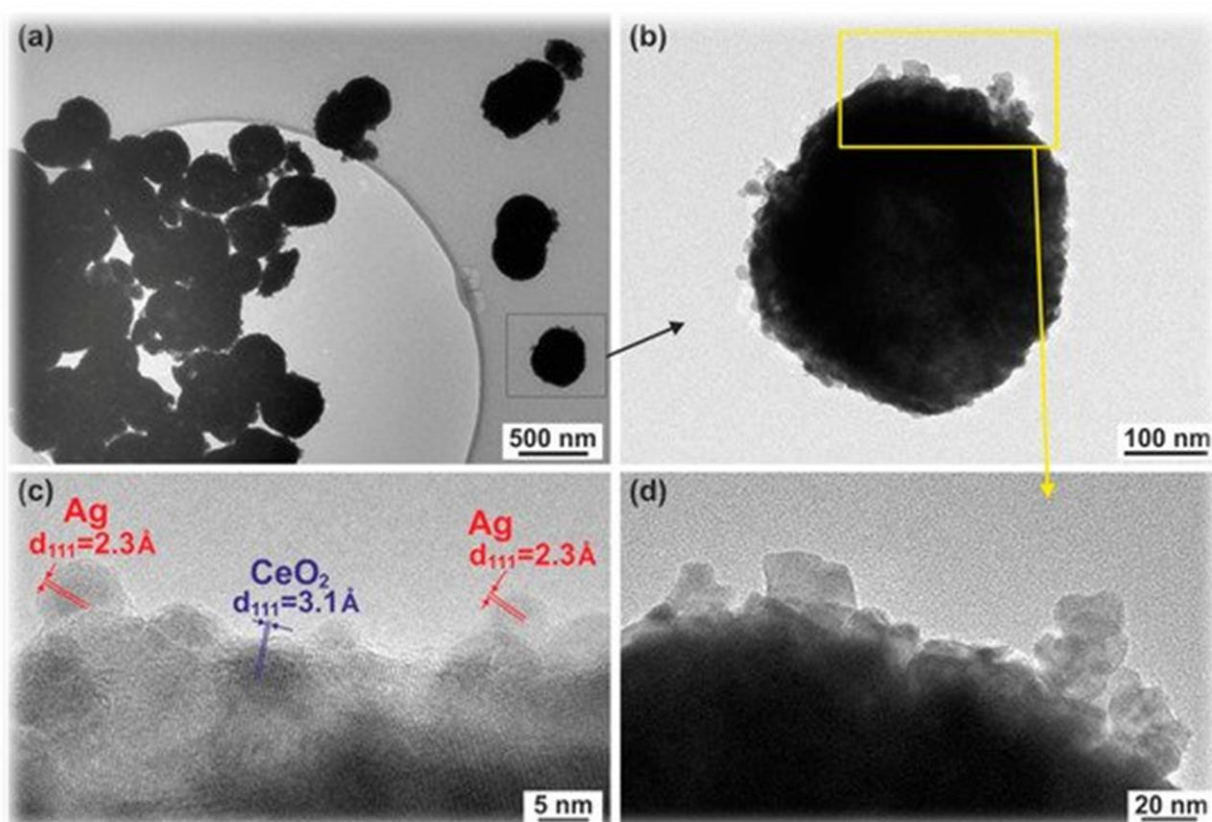
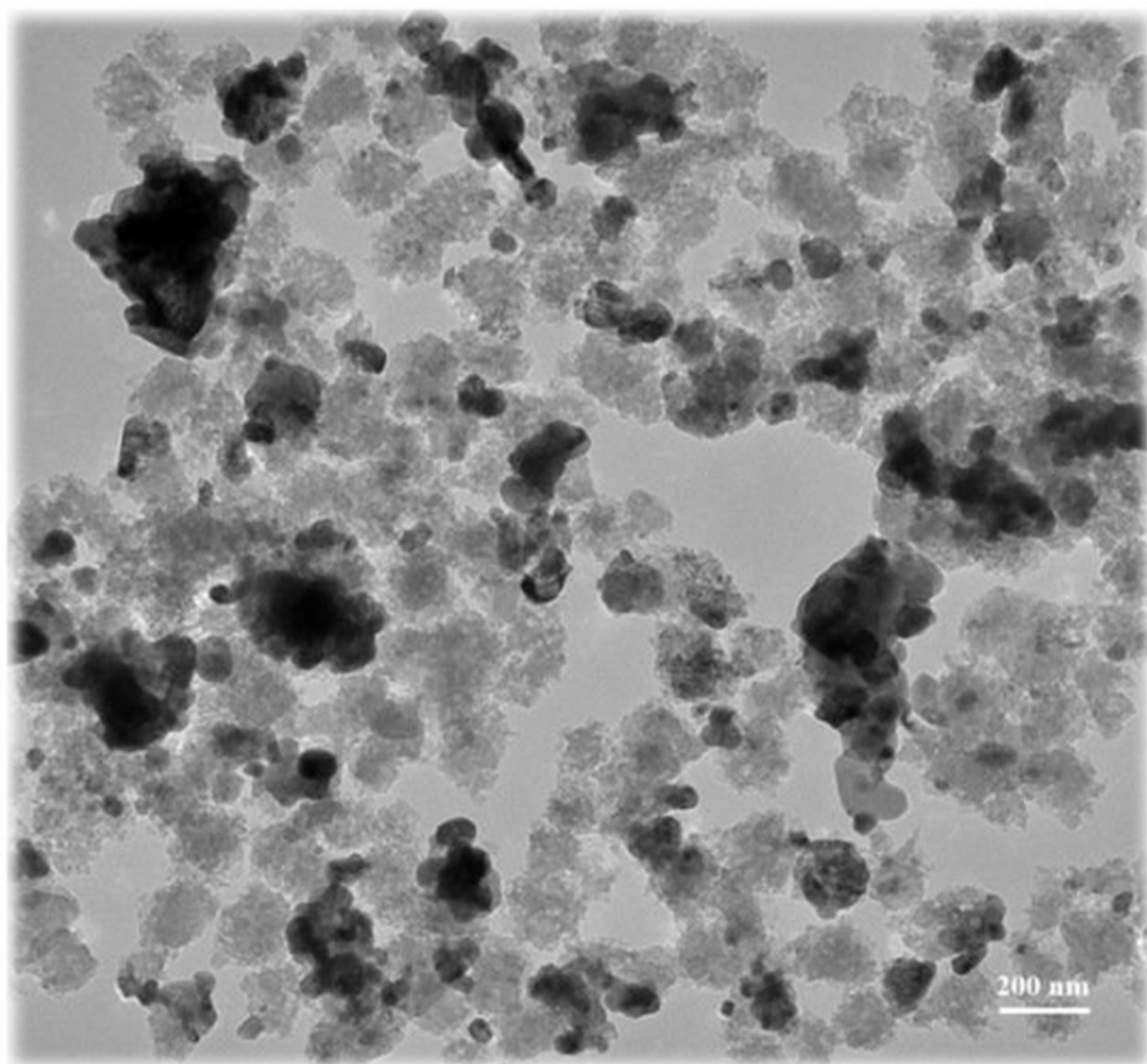


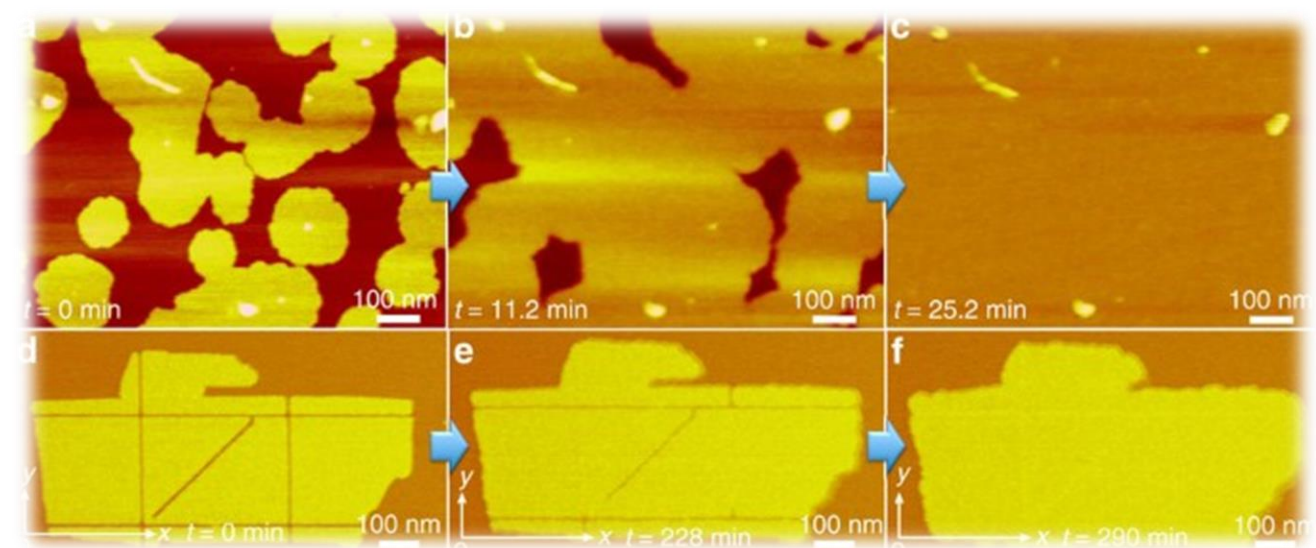
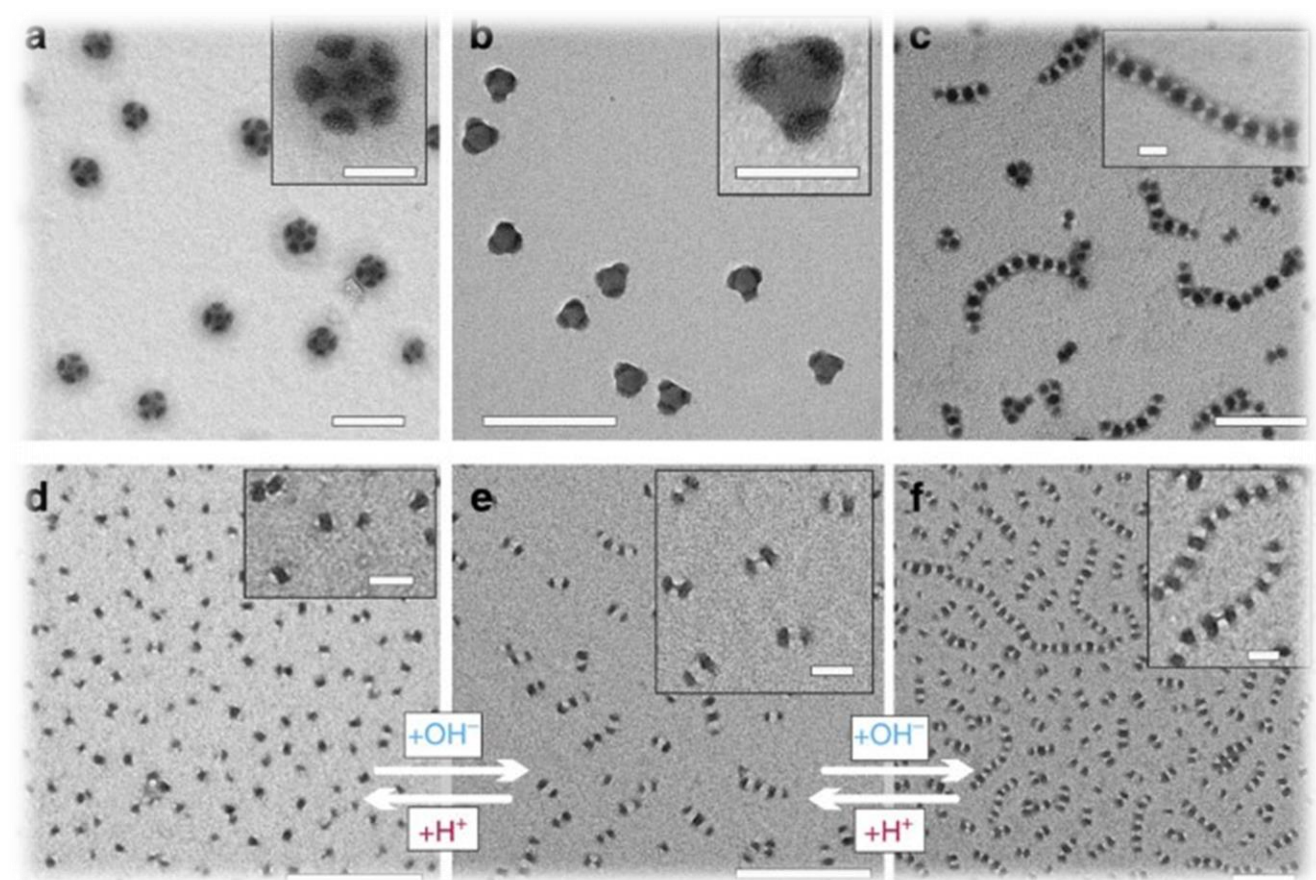
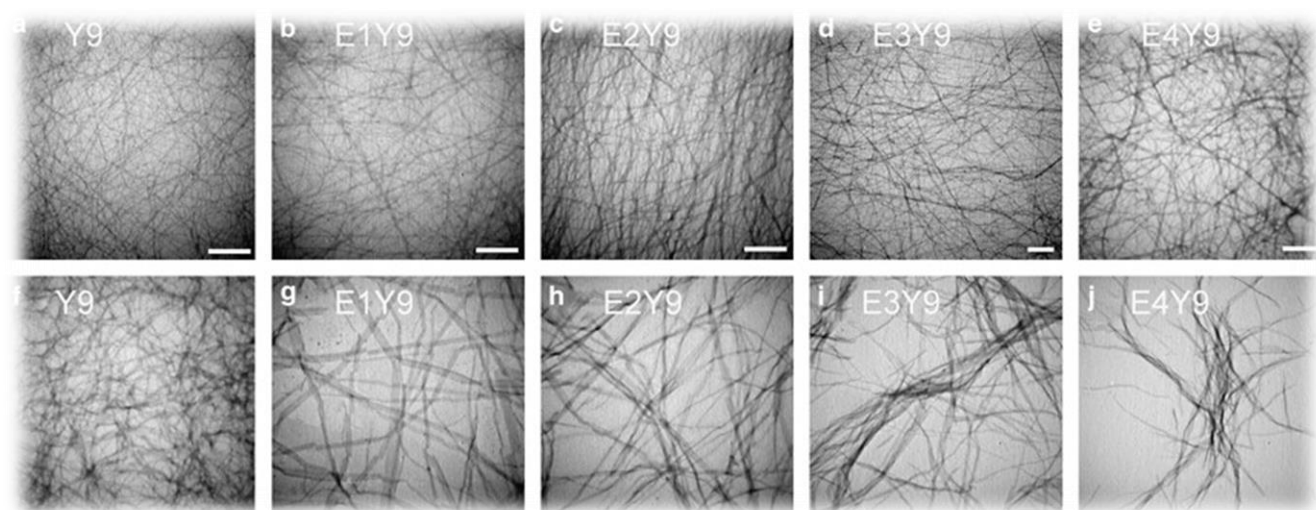




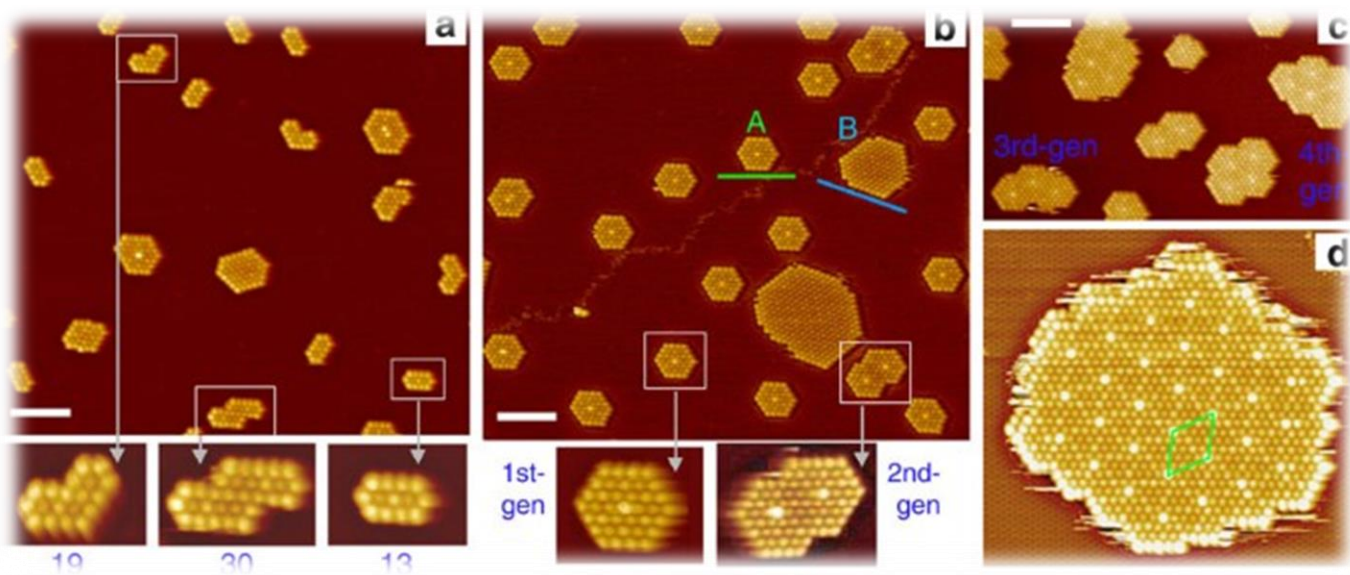
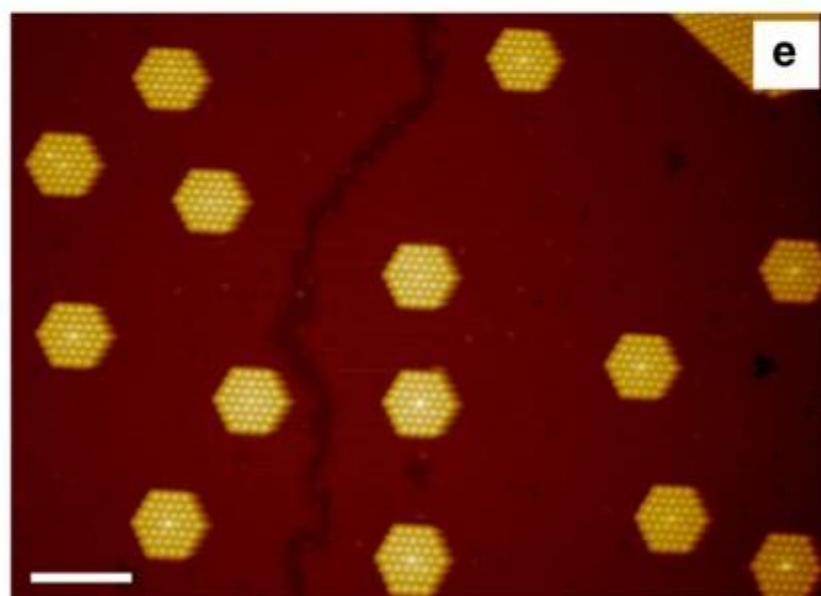
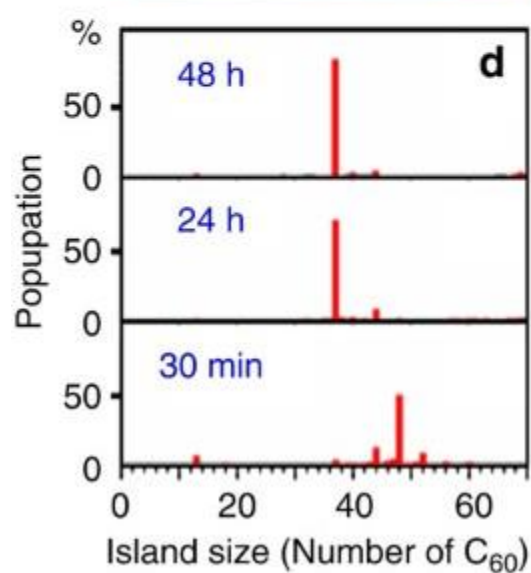
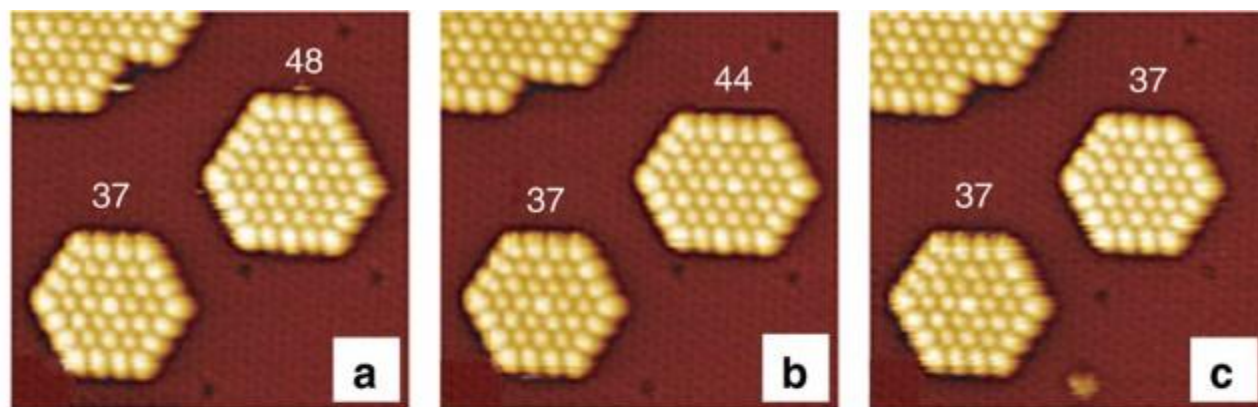
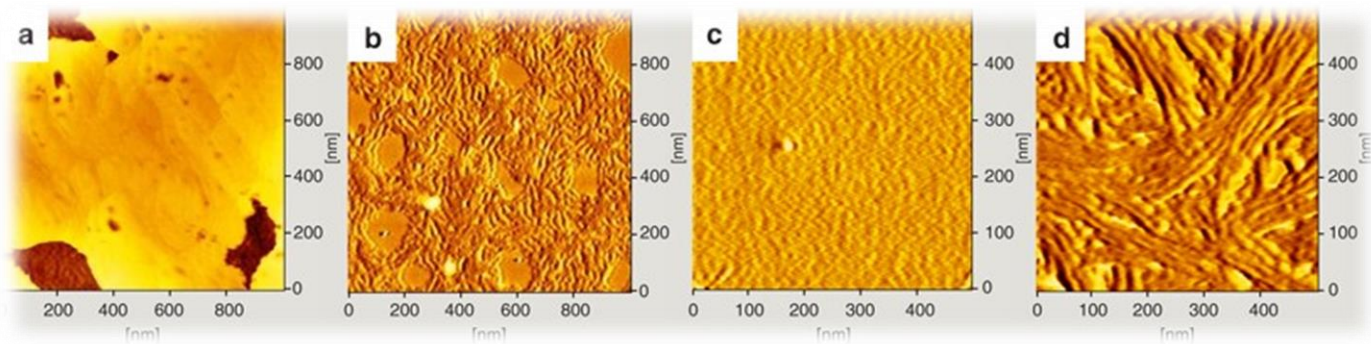




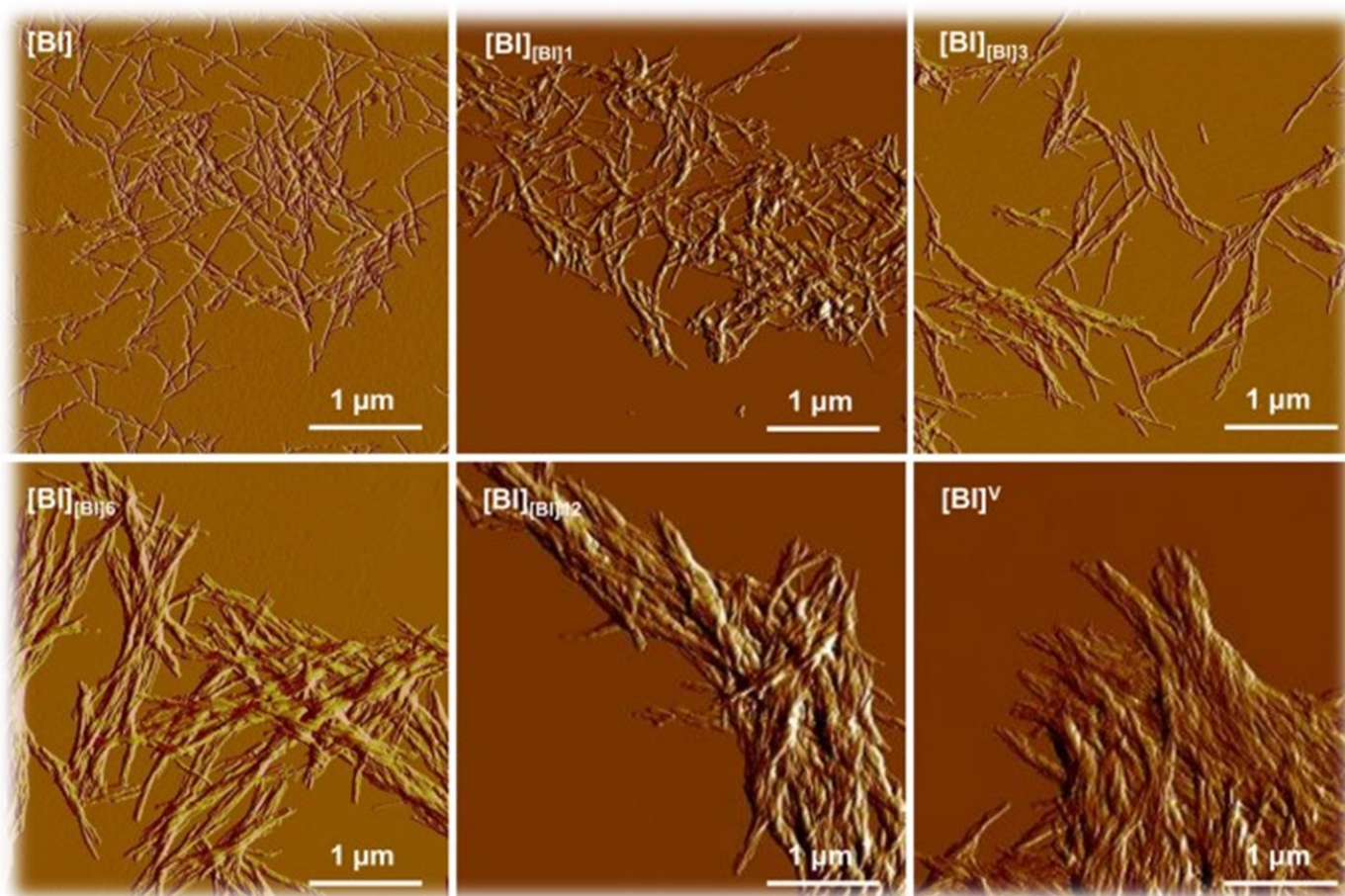
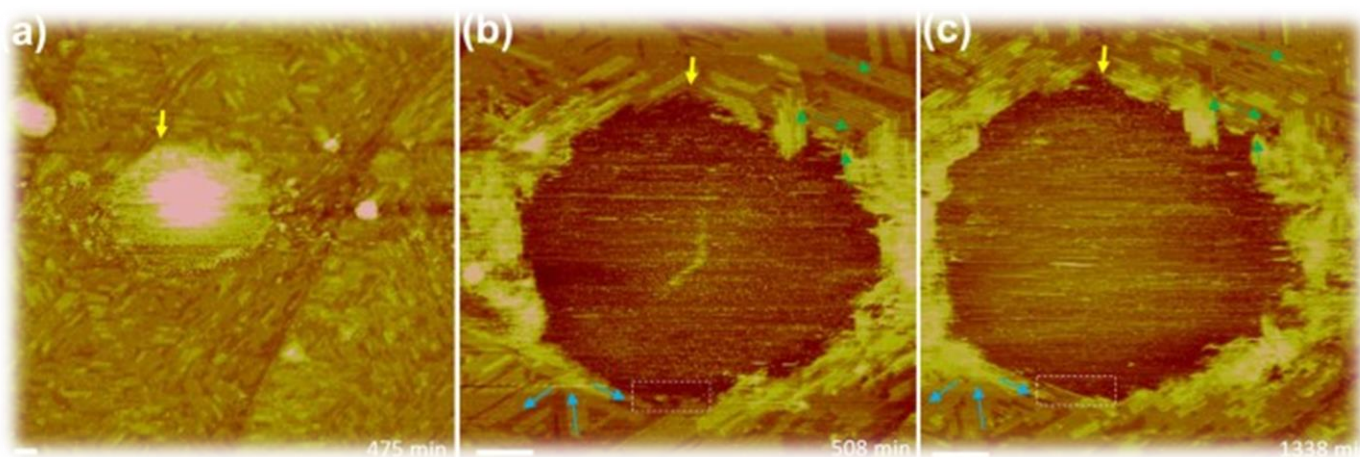
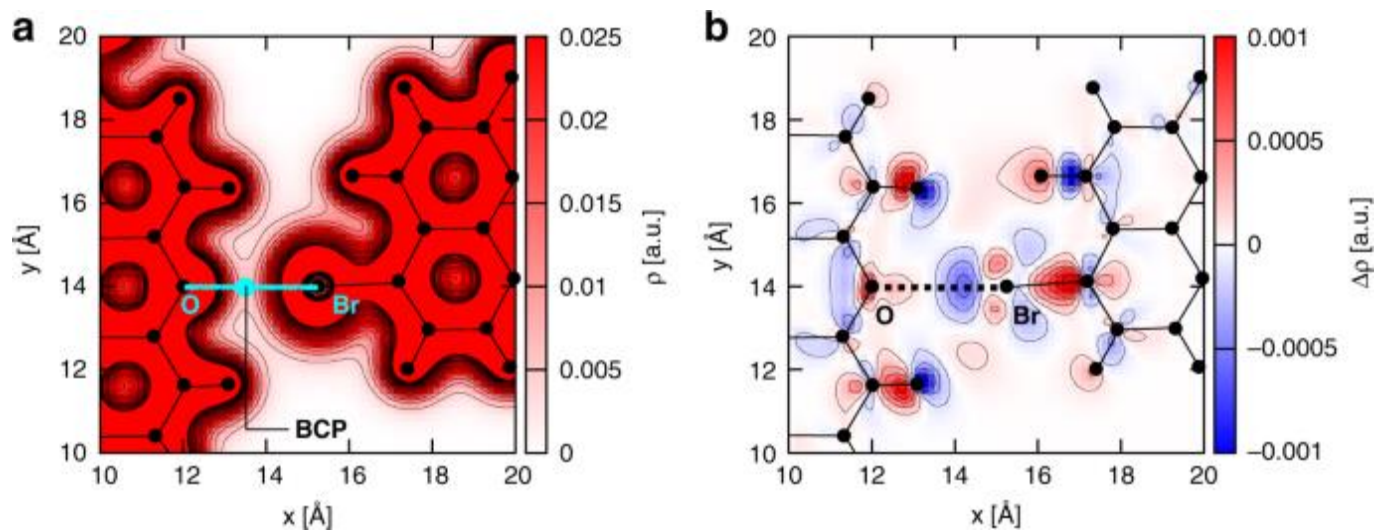




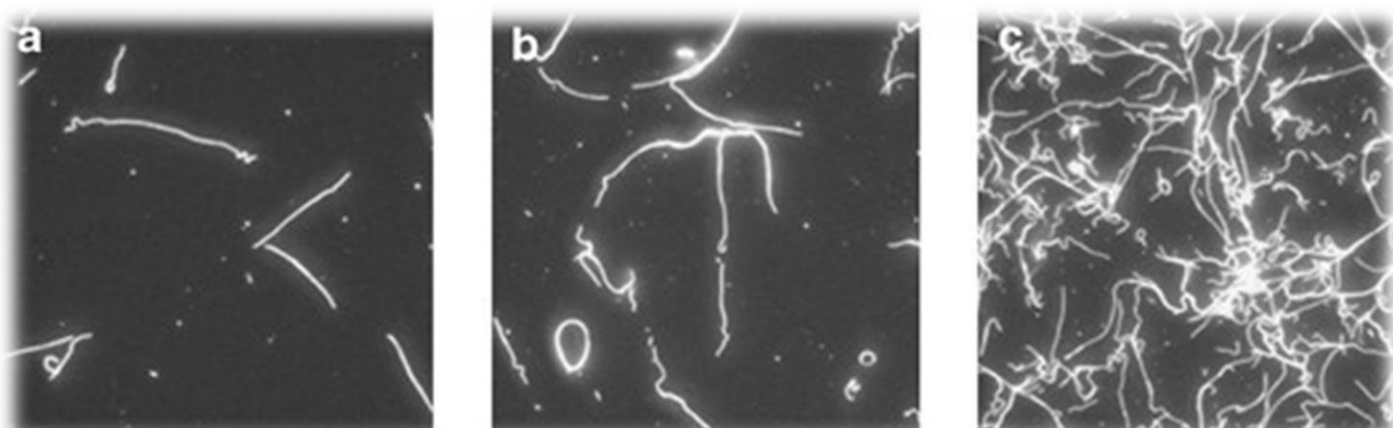
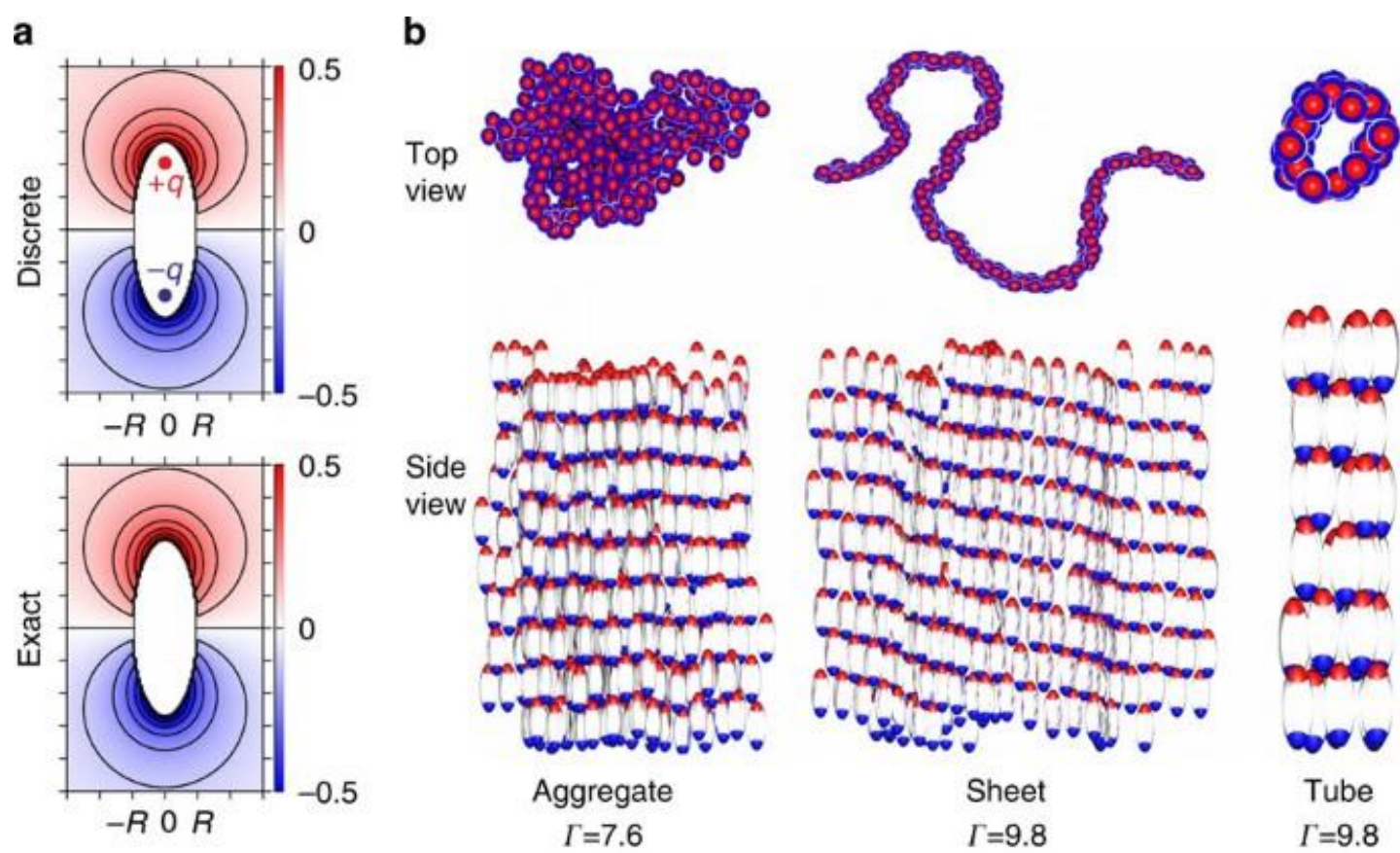
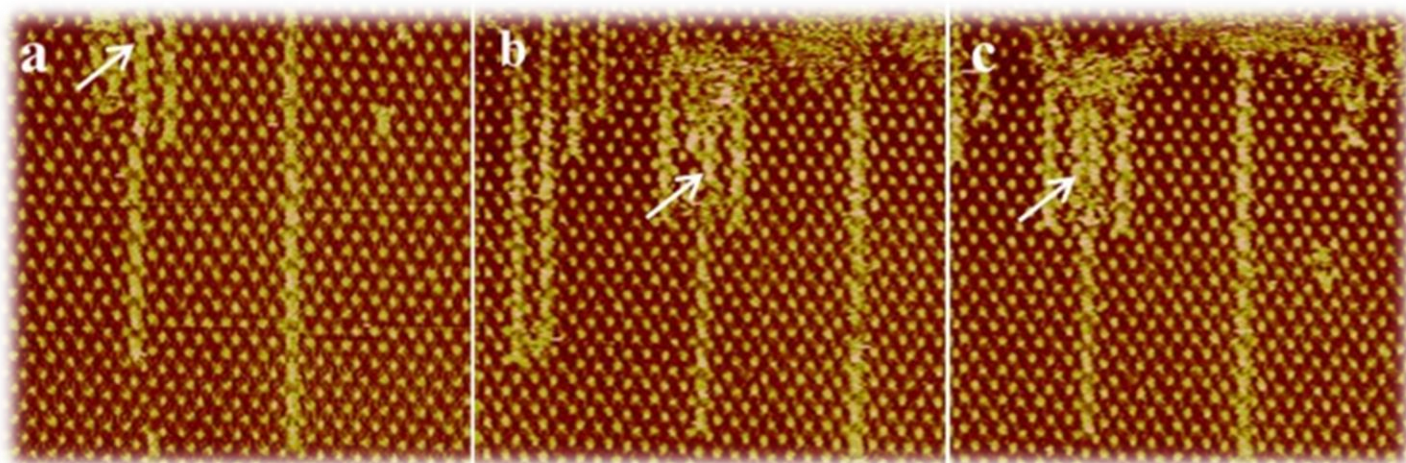




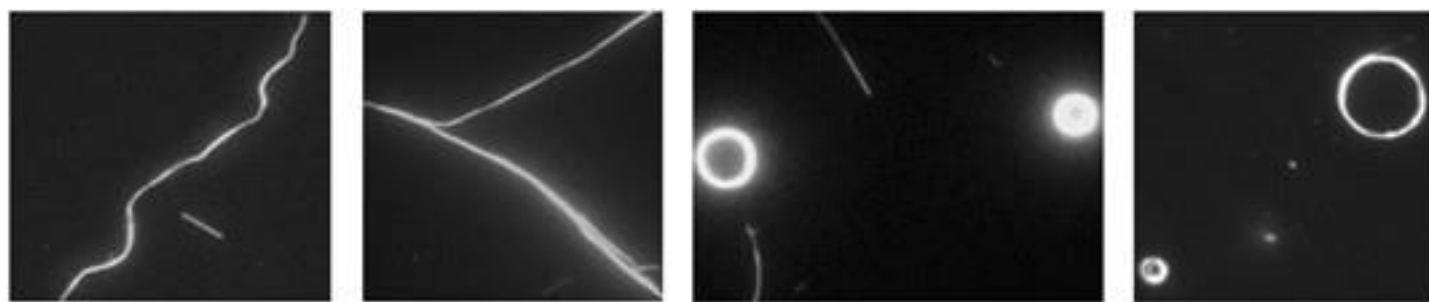










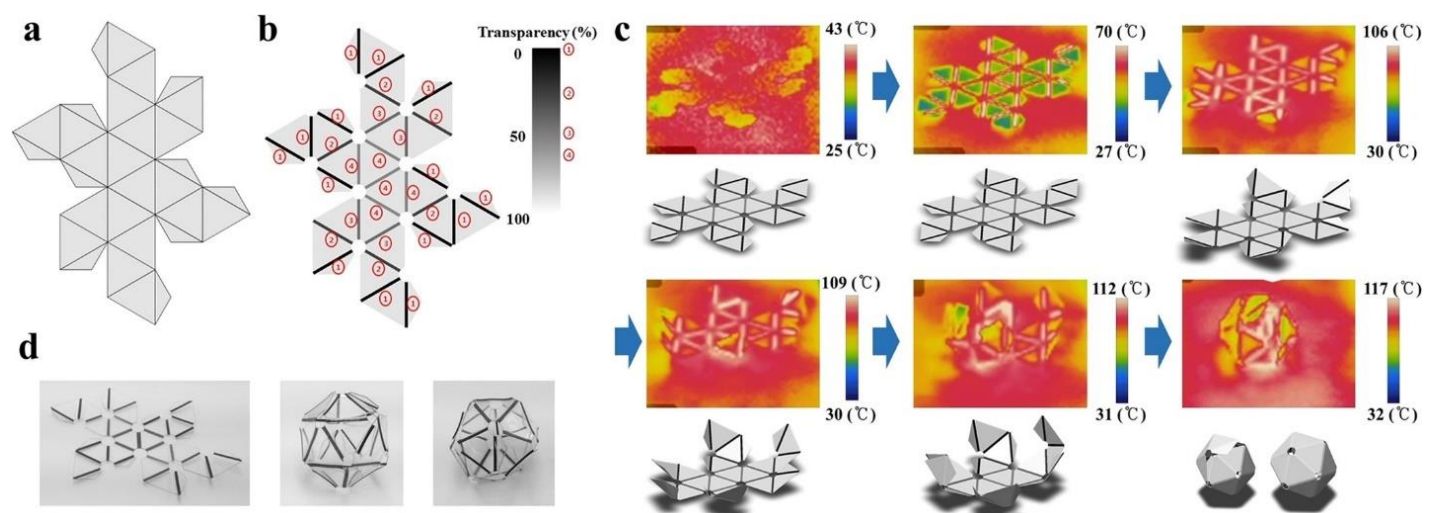
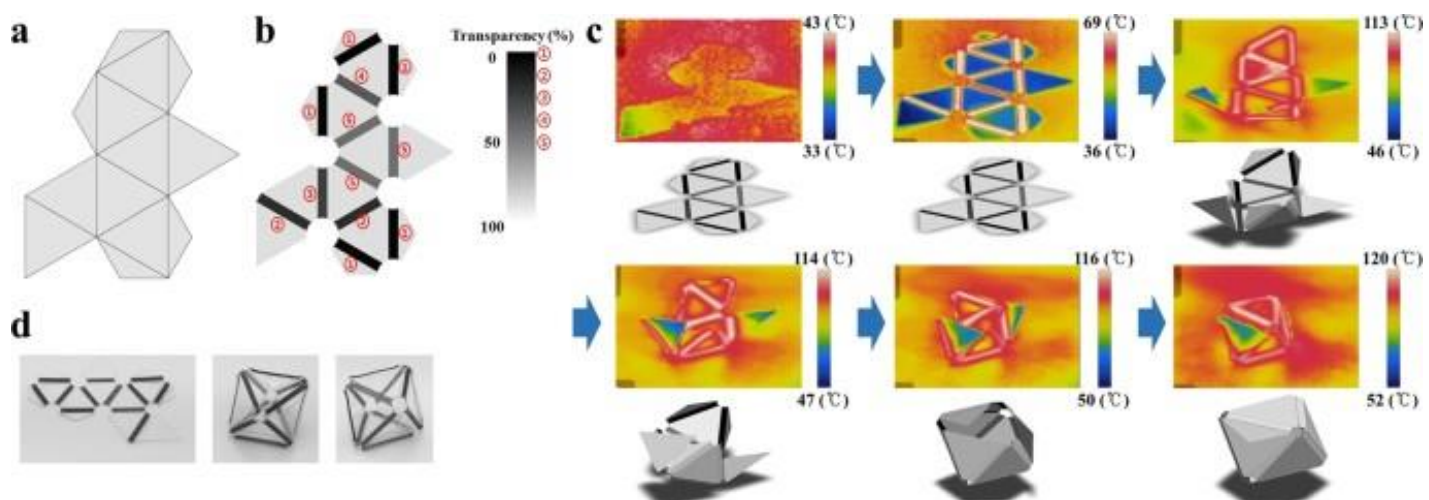
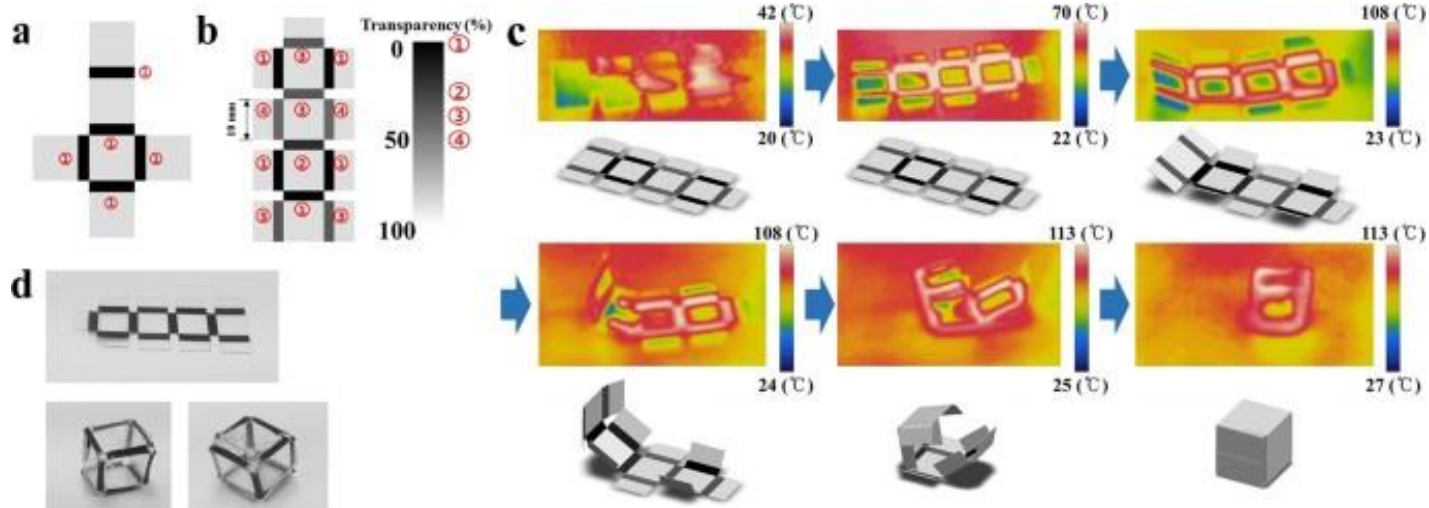


60 min

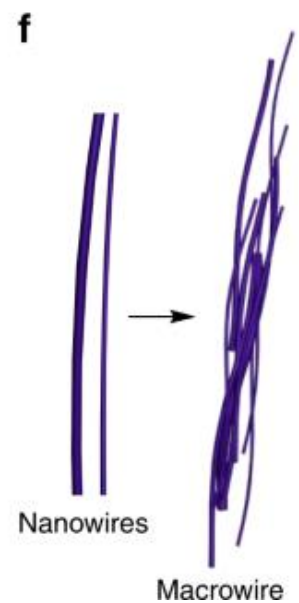
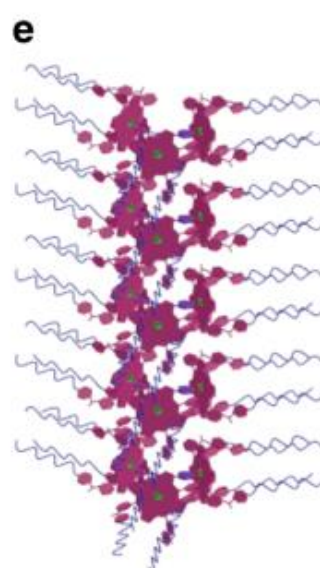
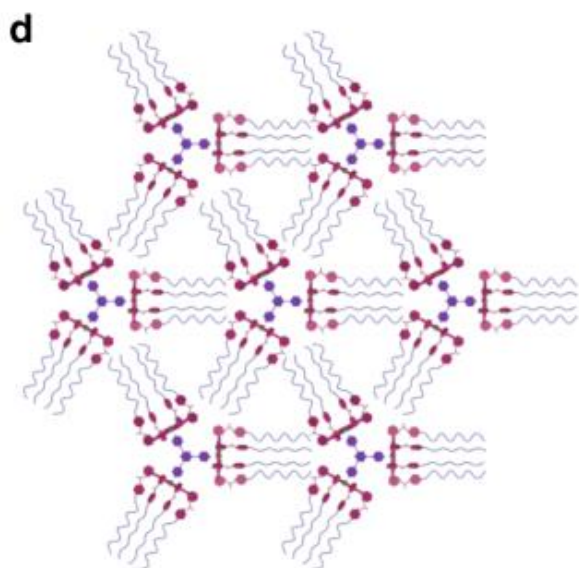
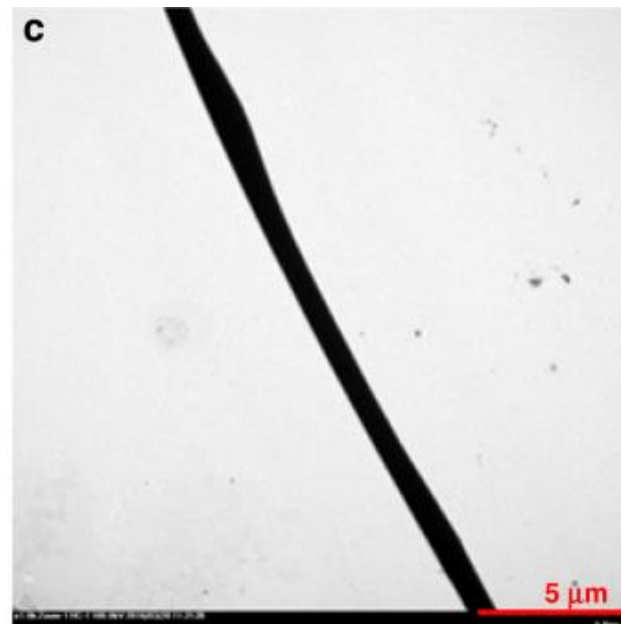
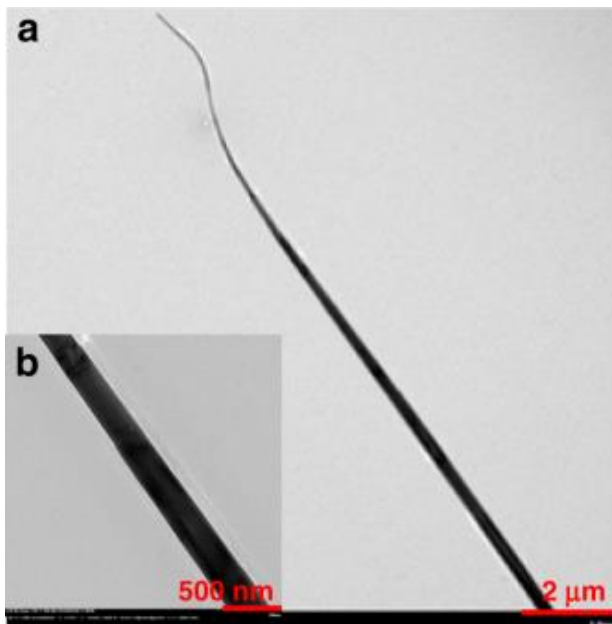
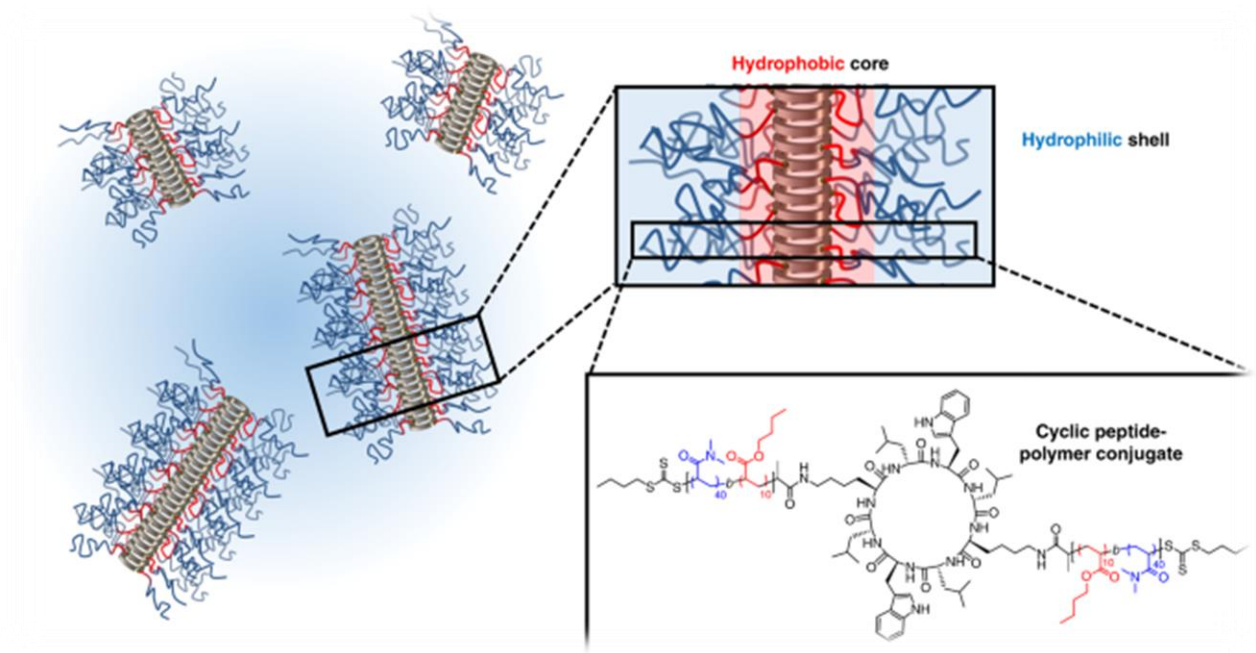
120 min

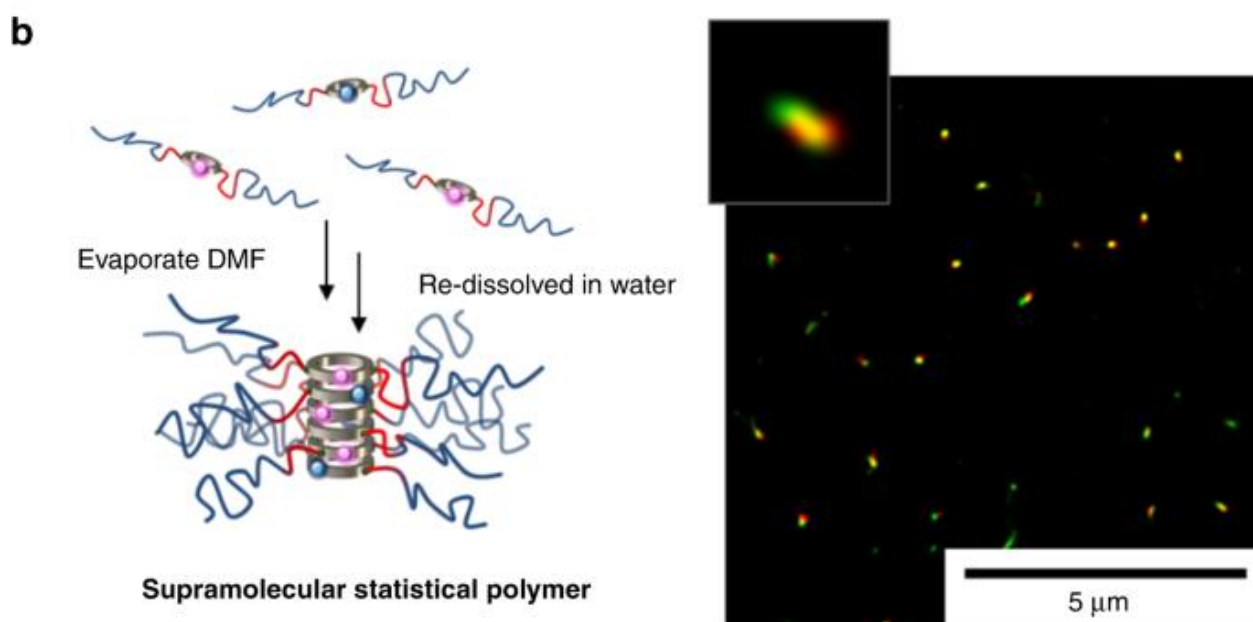
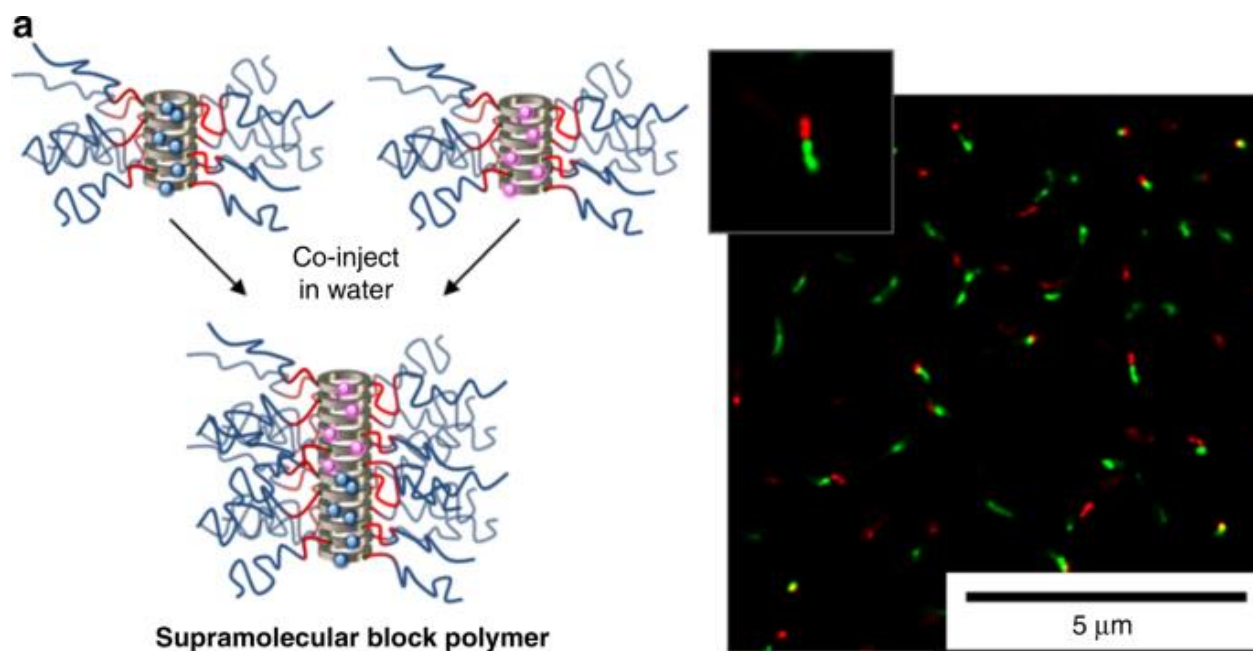
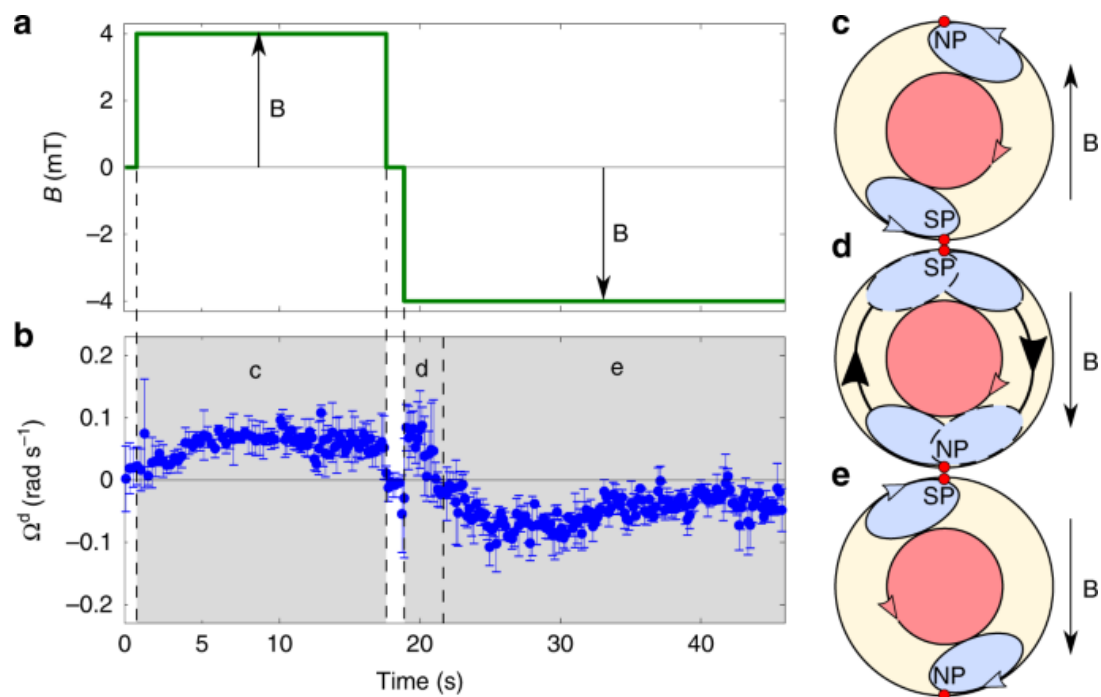
300 min

900 min



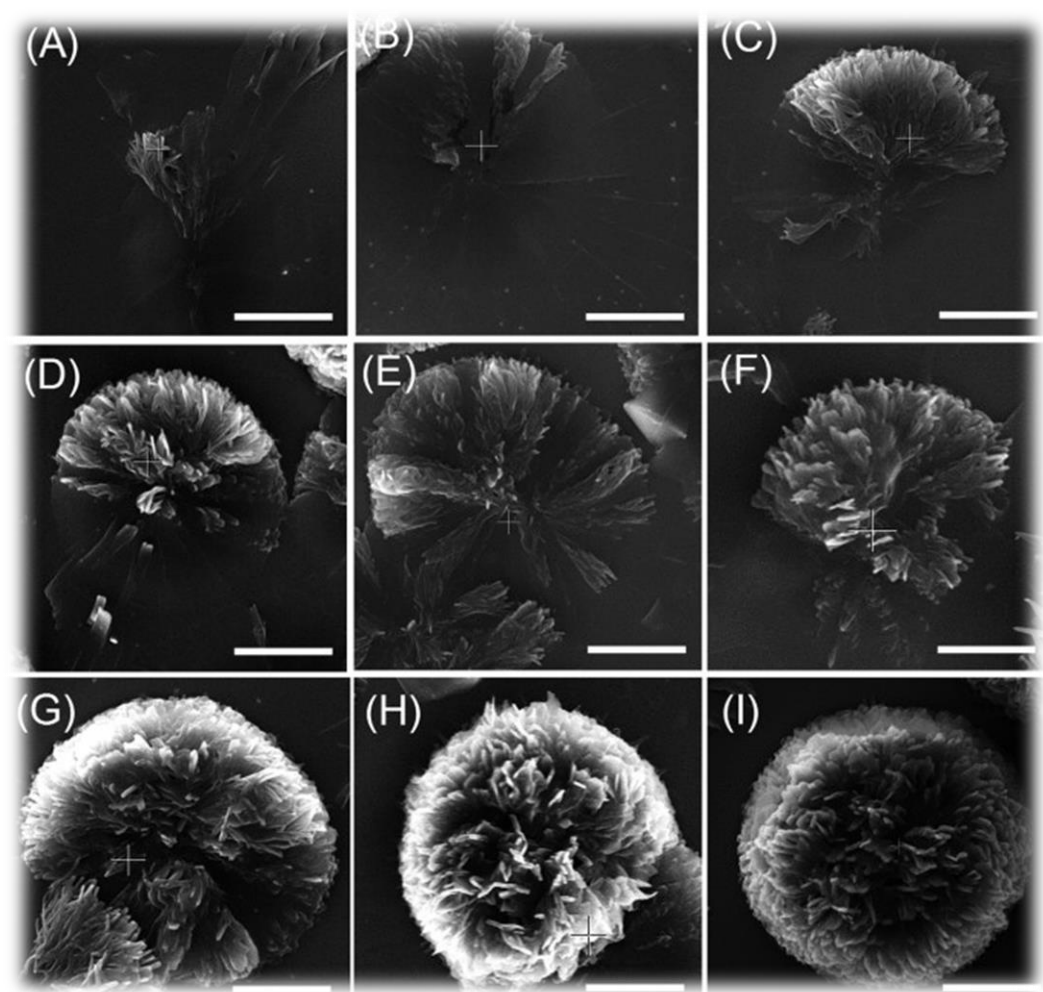
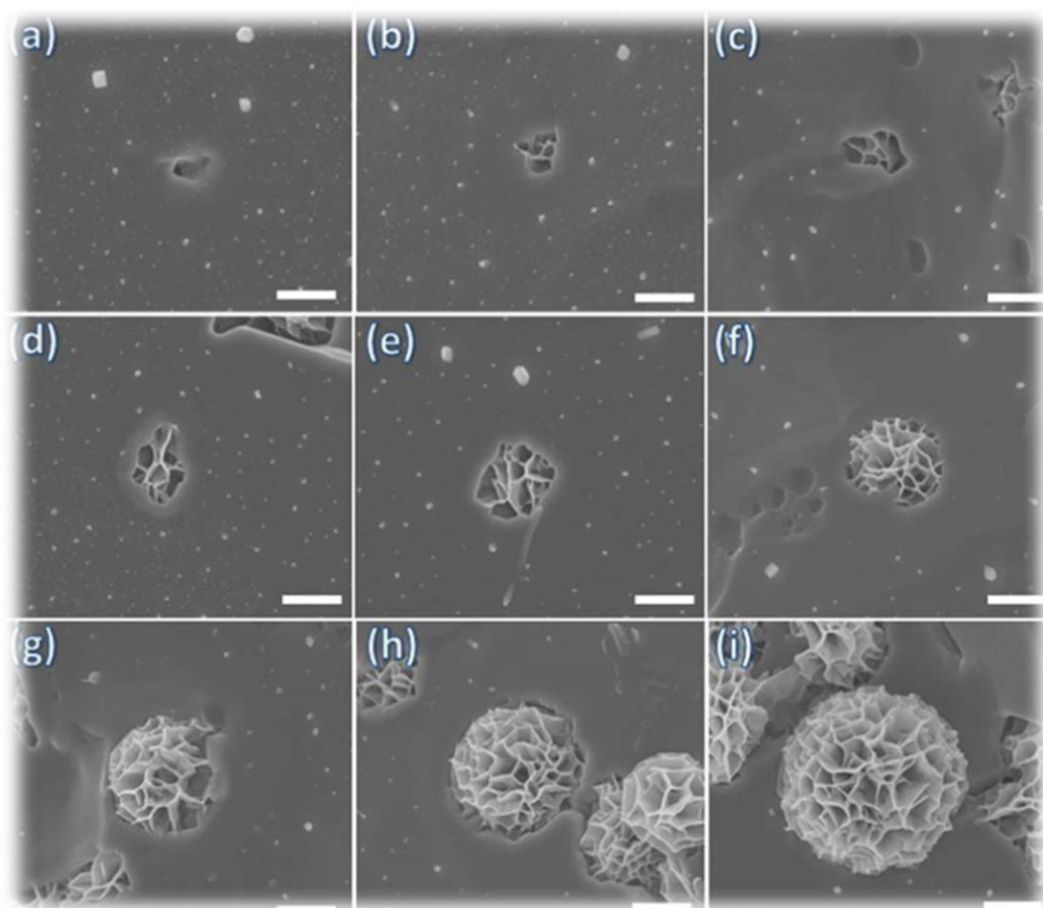




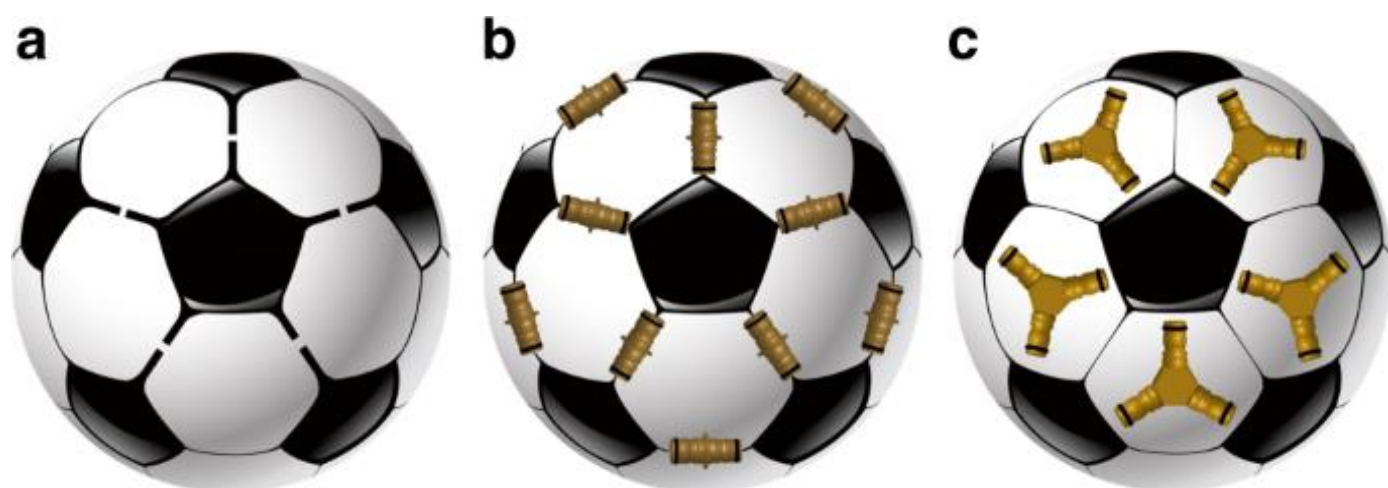
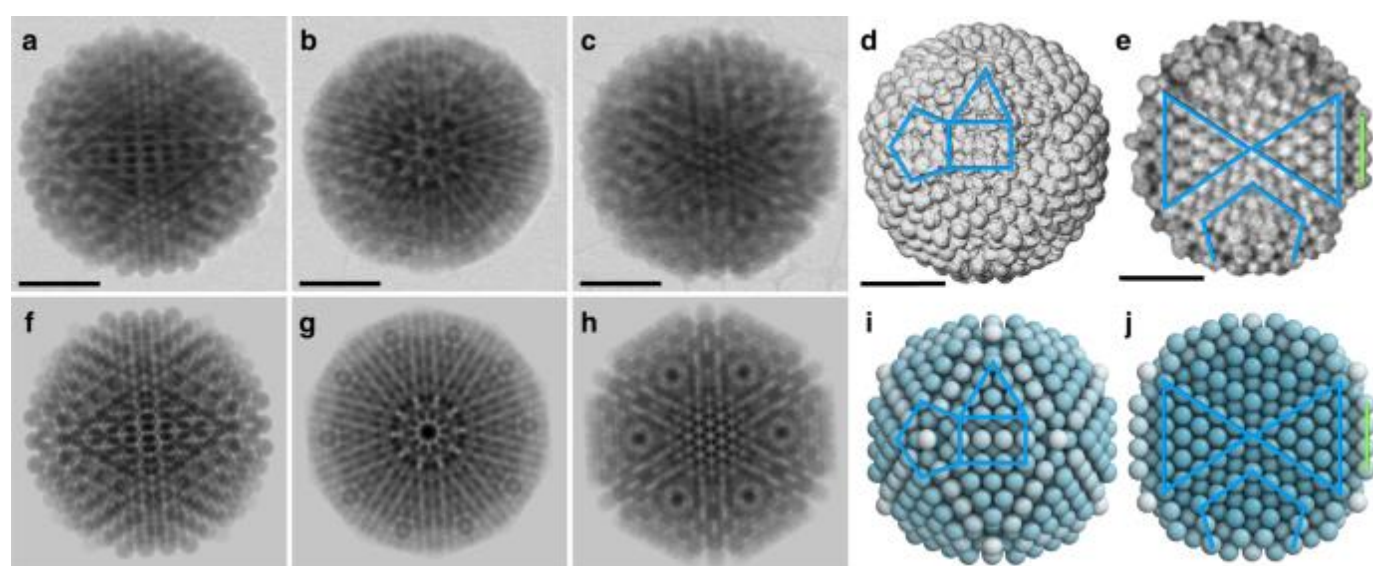
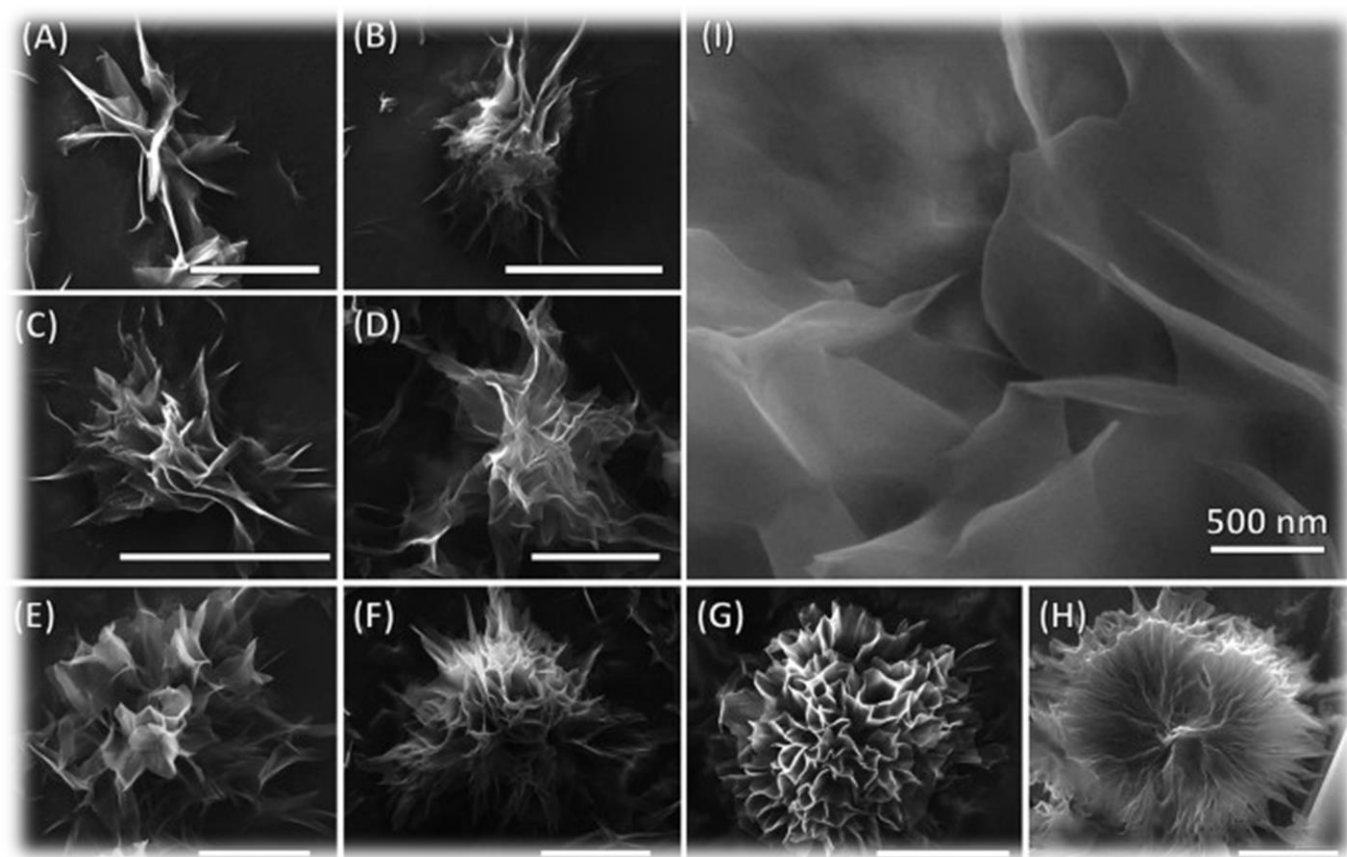


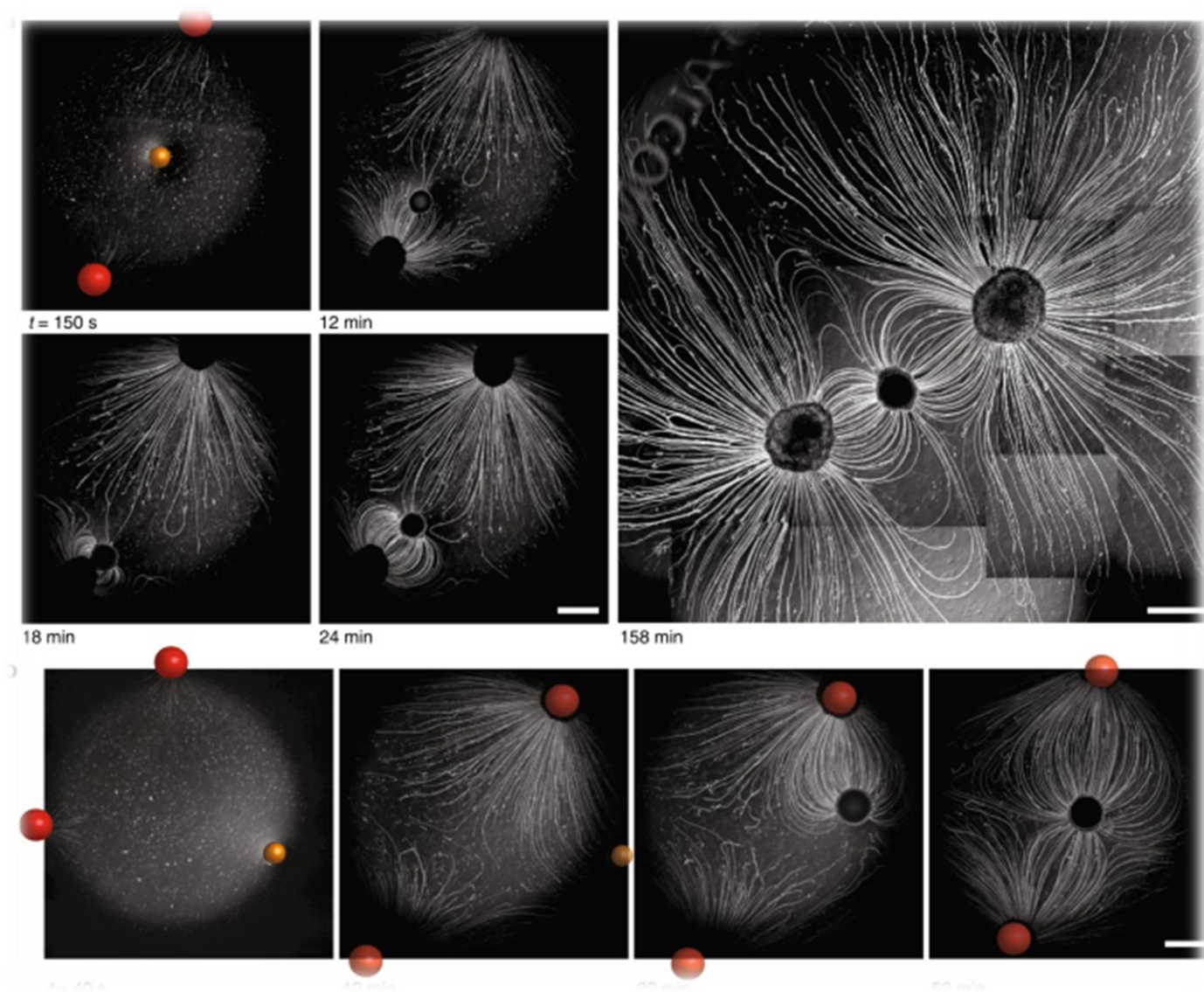
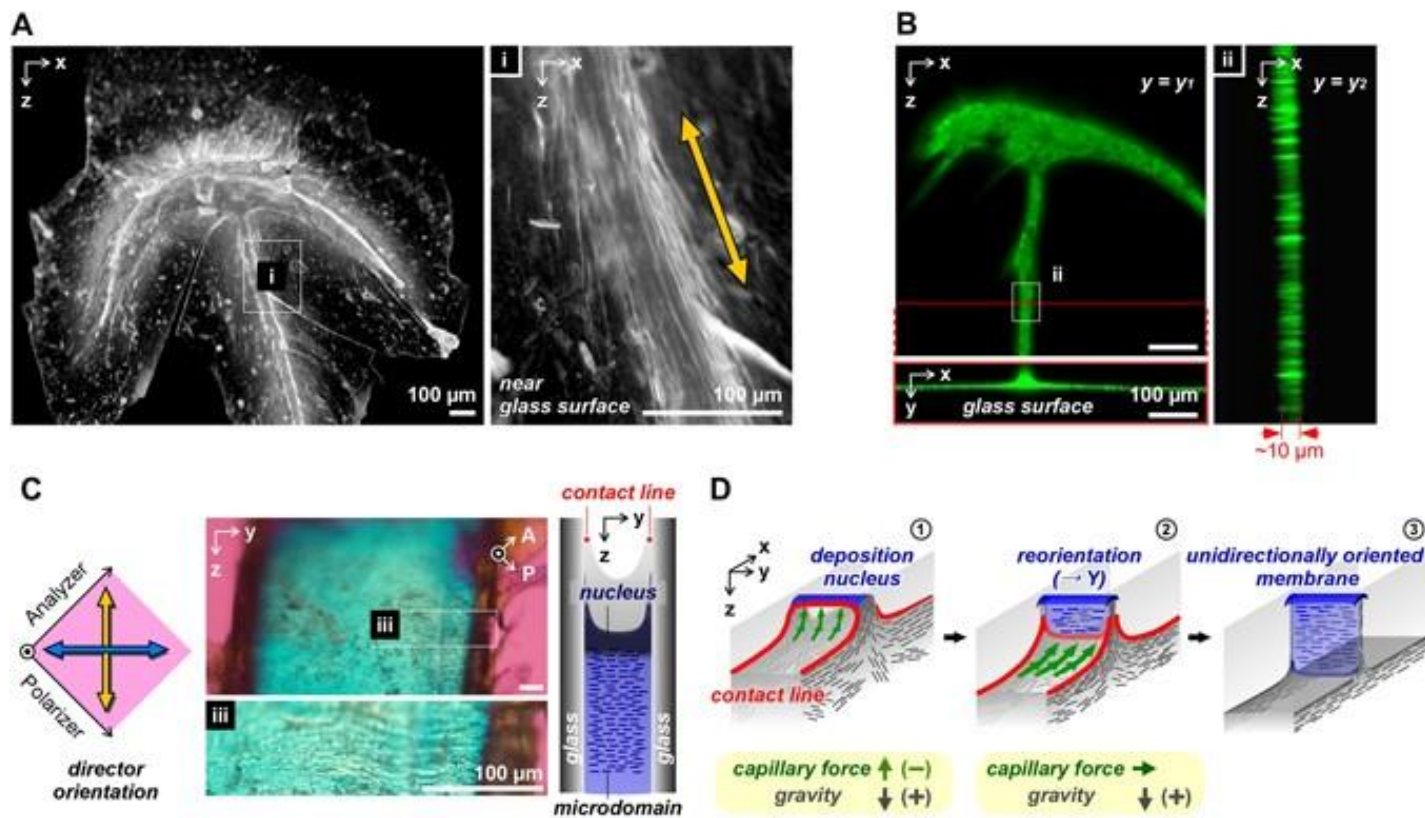




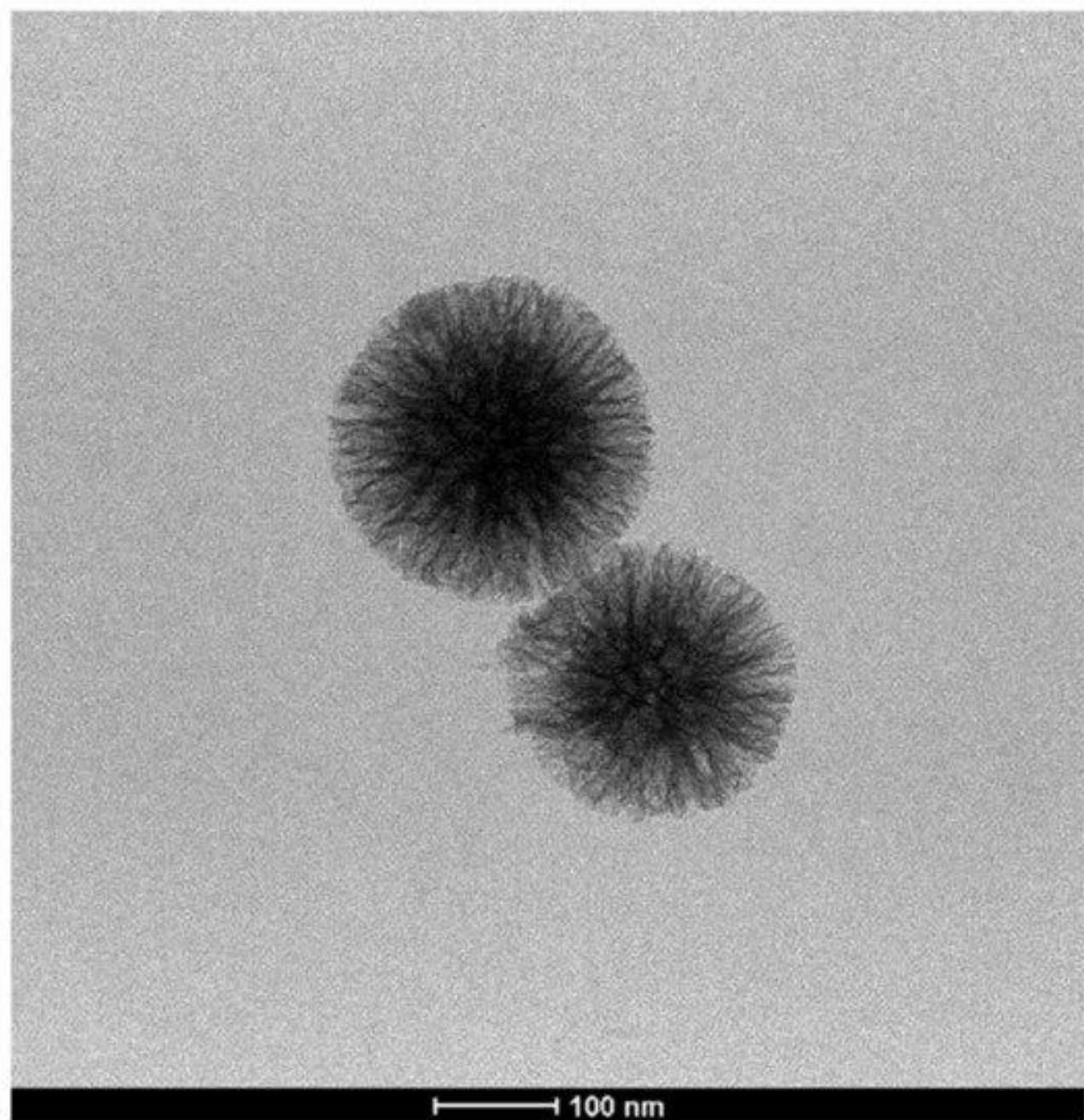
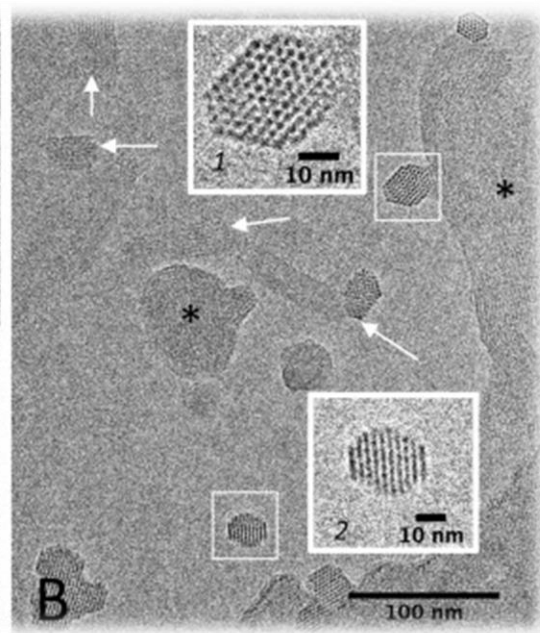
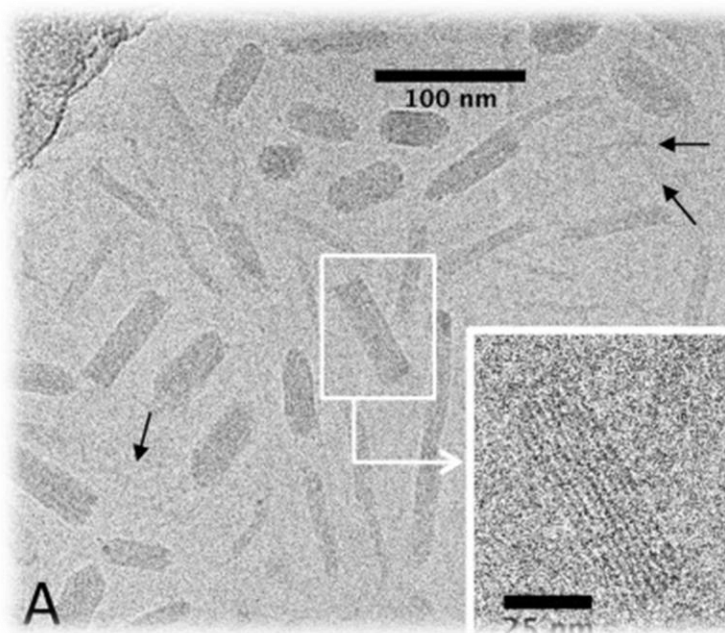


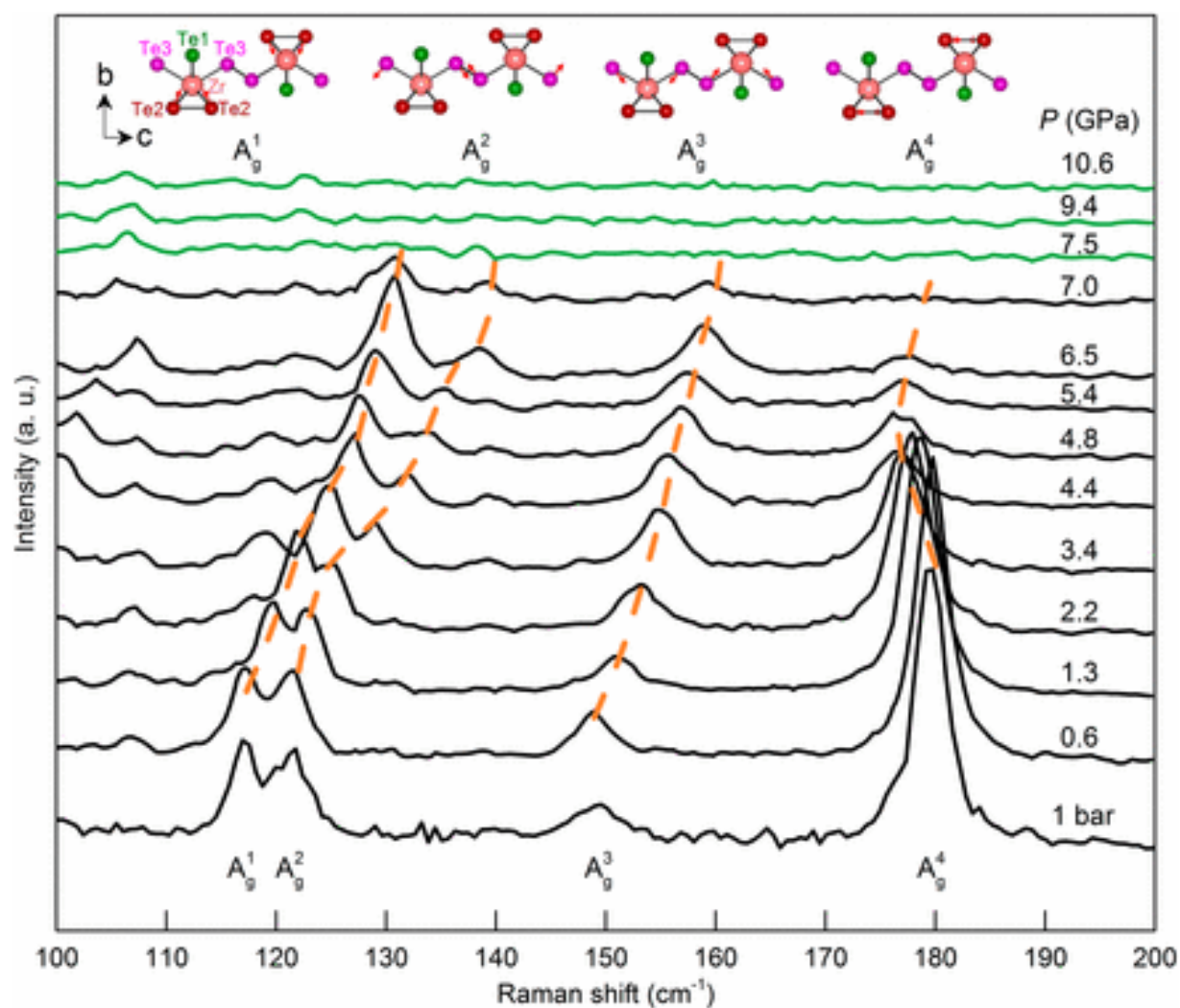
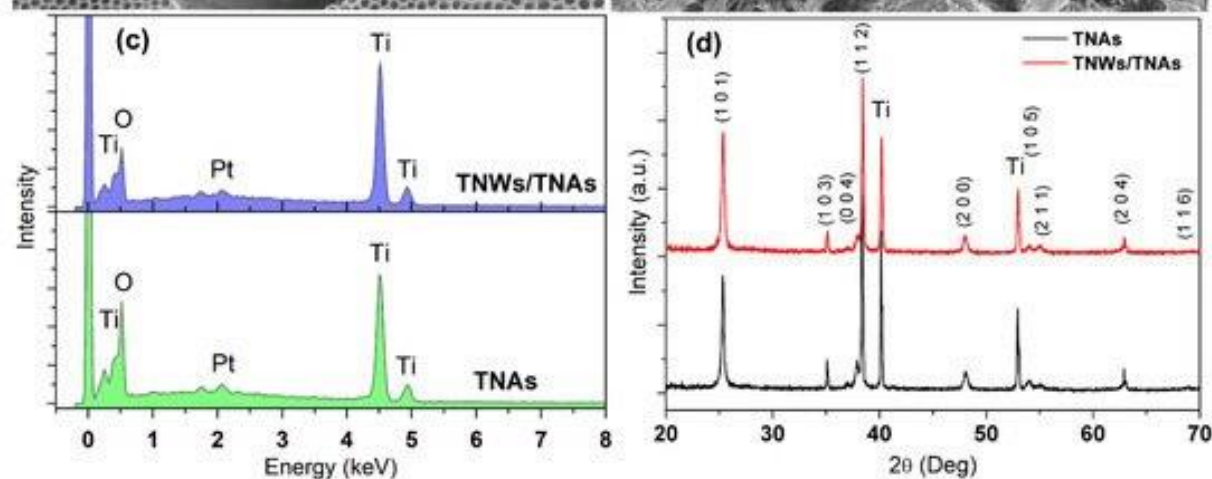
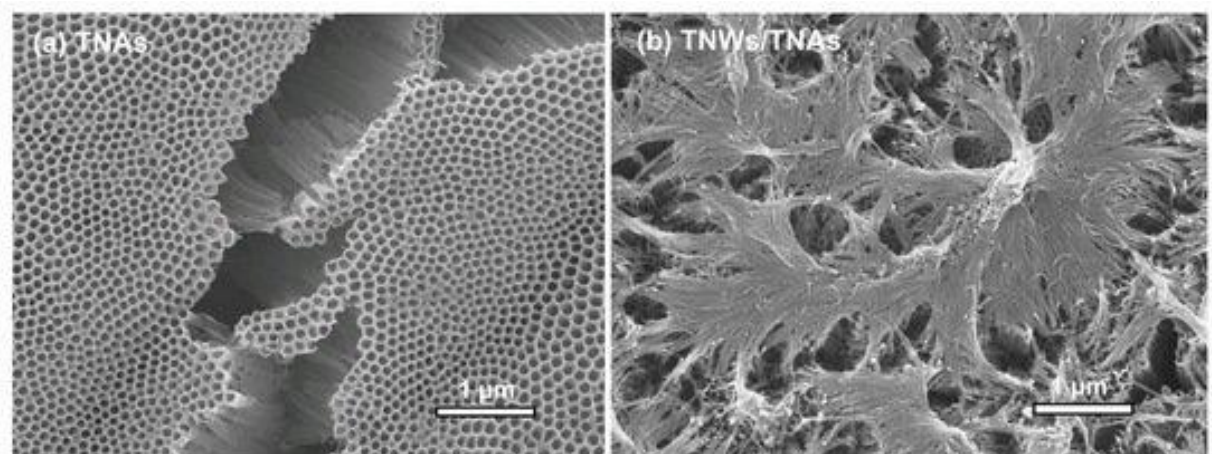




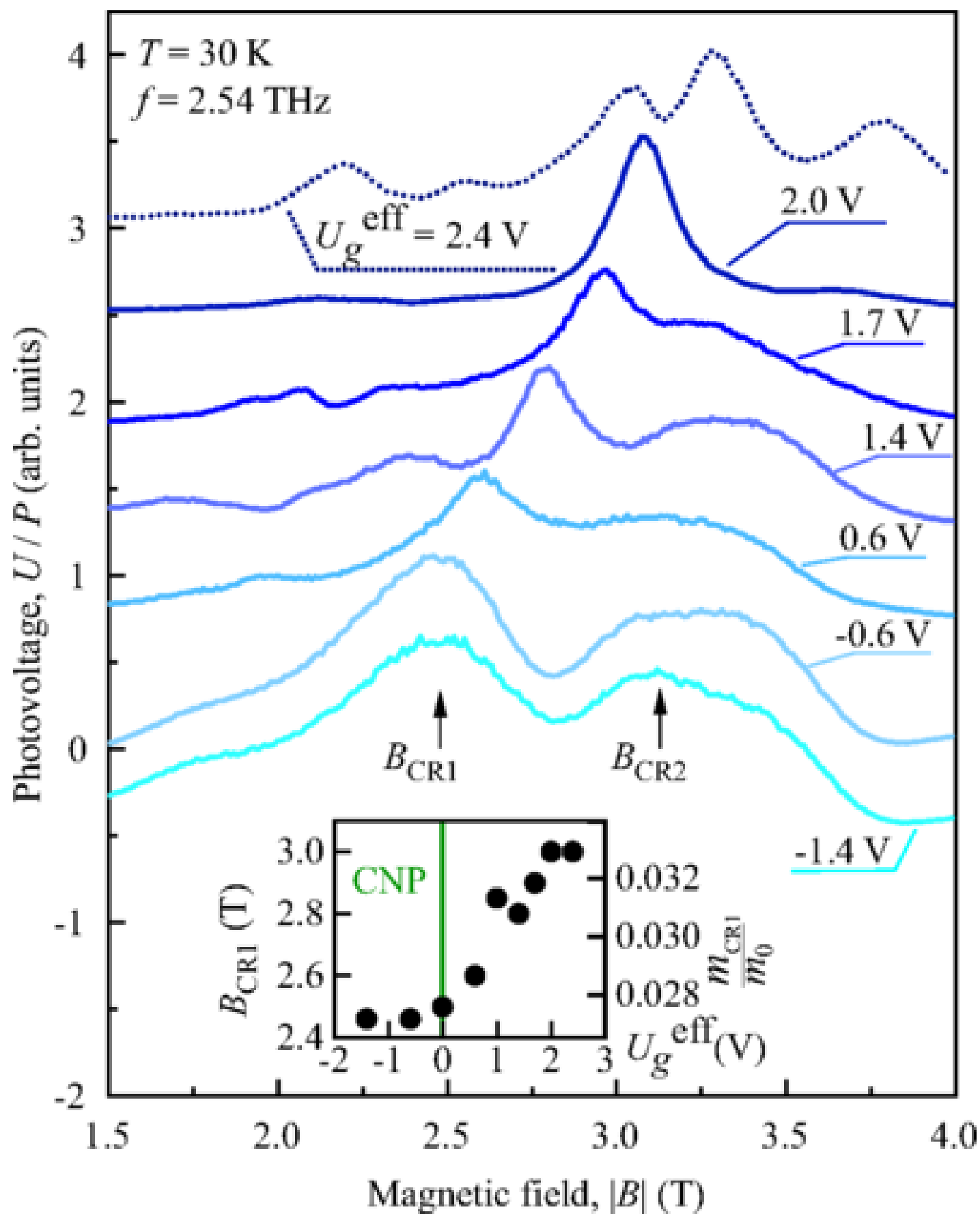


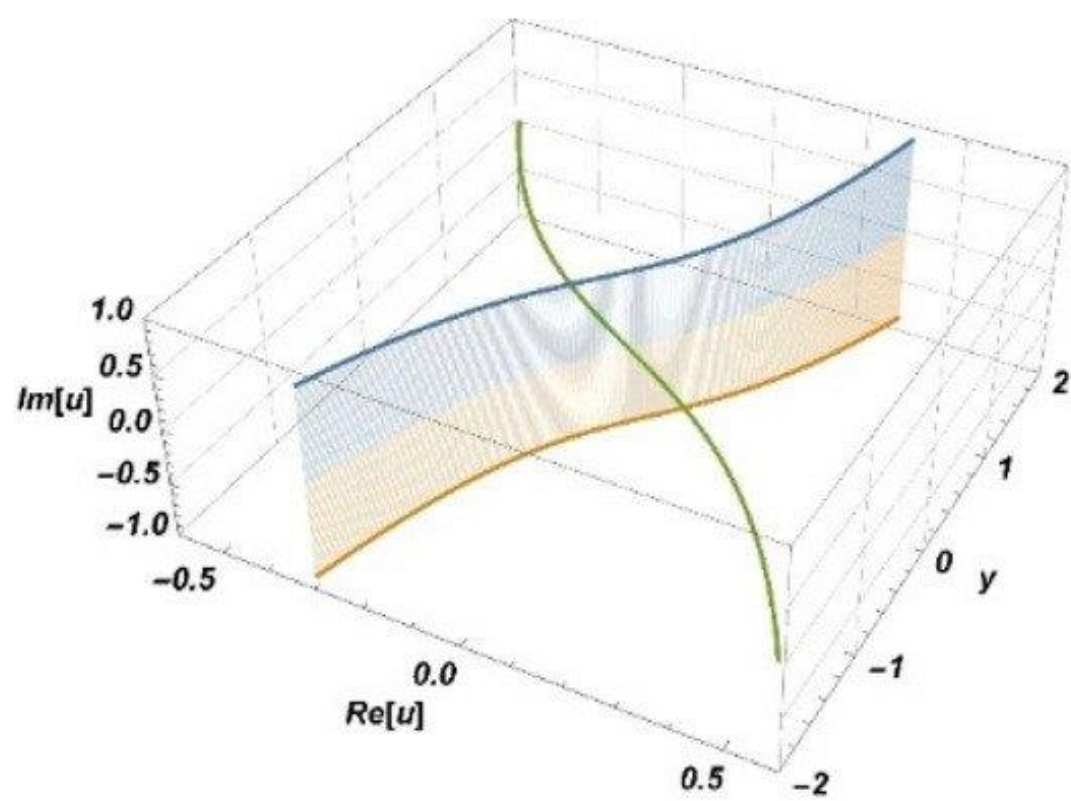
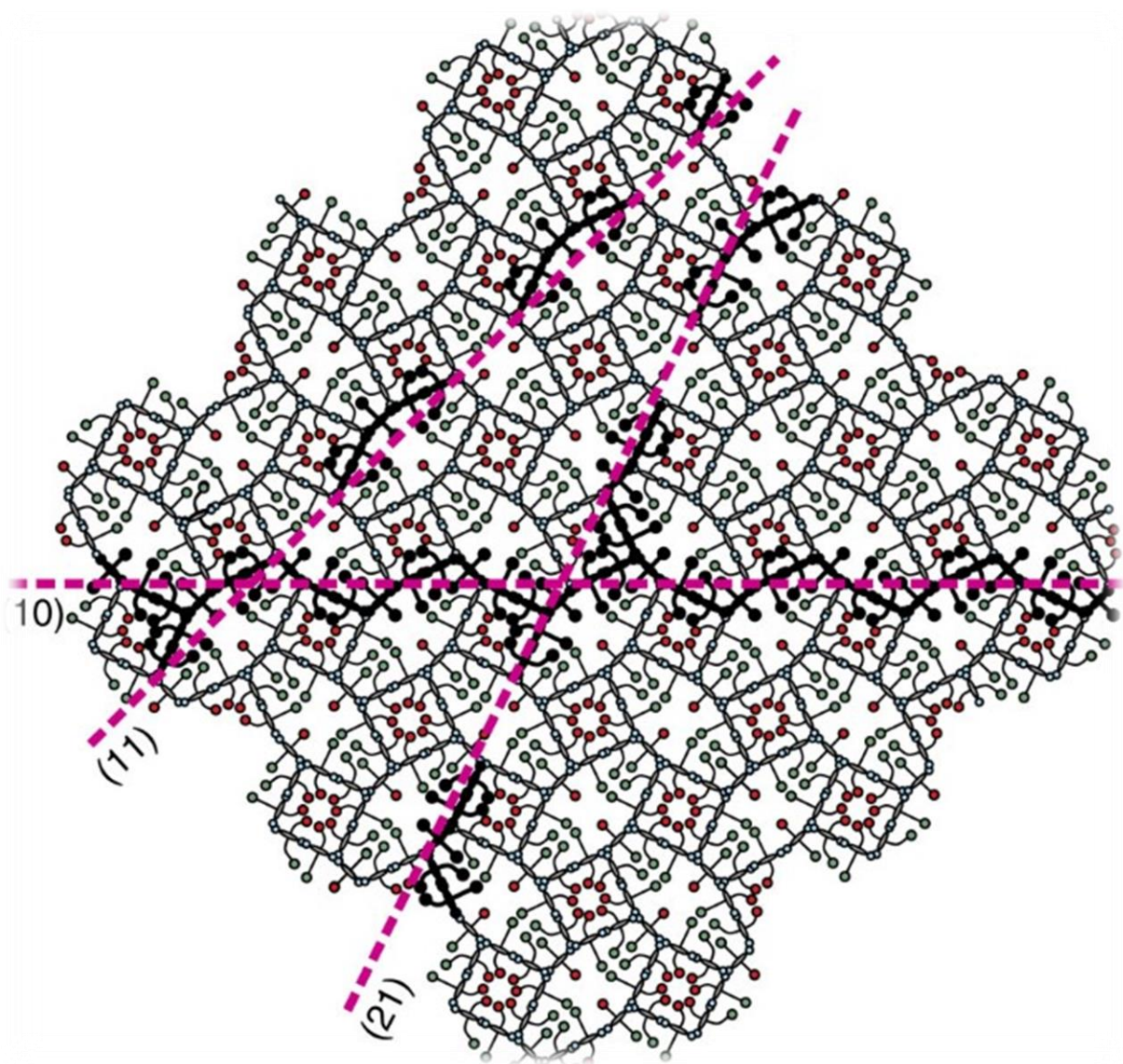




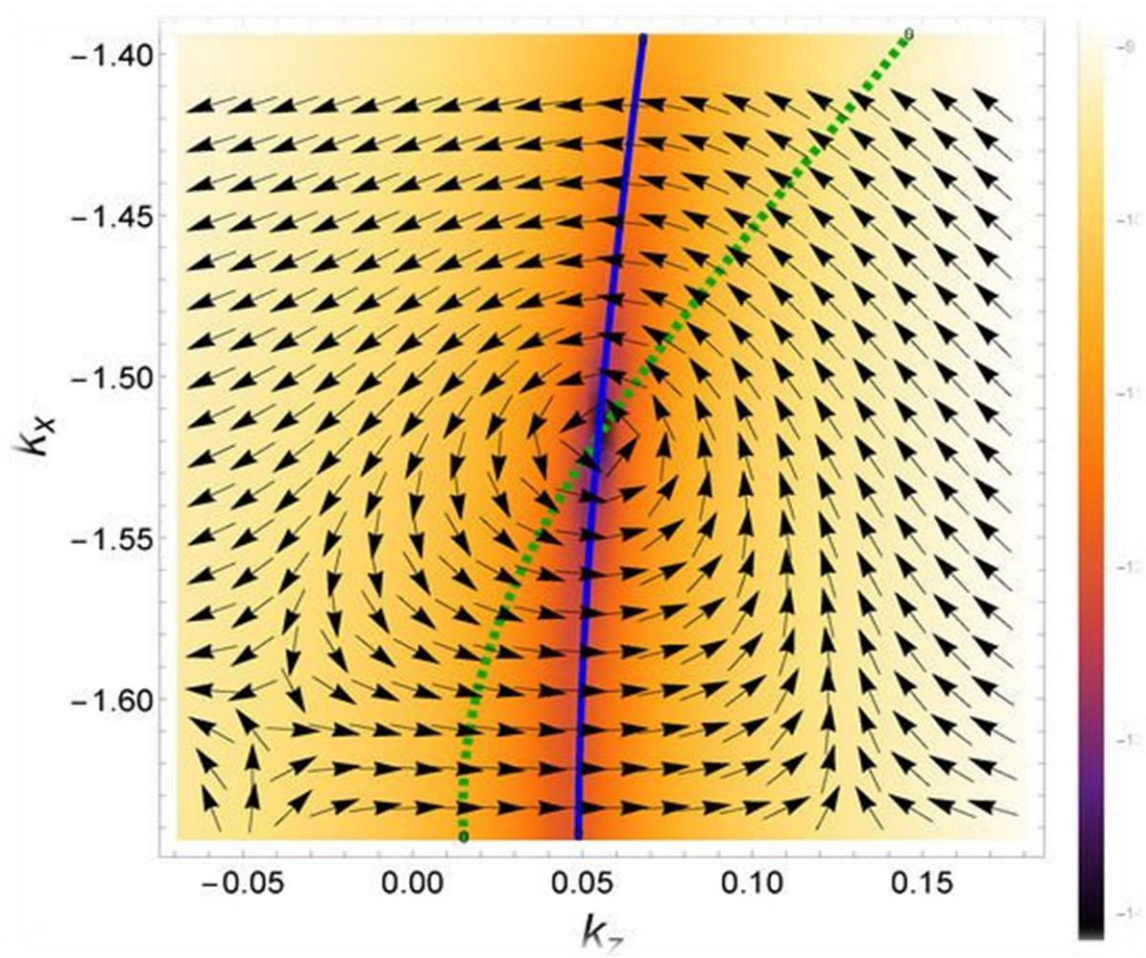
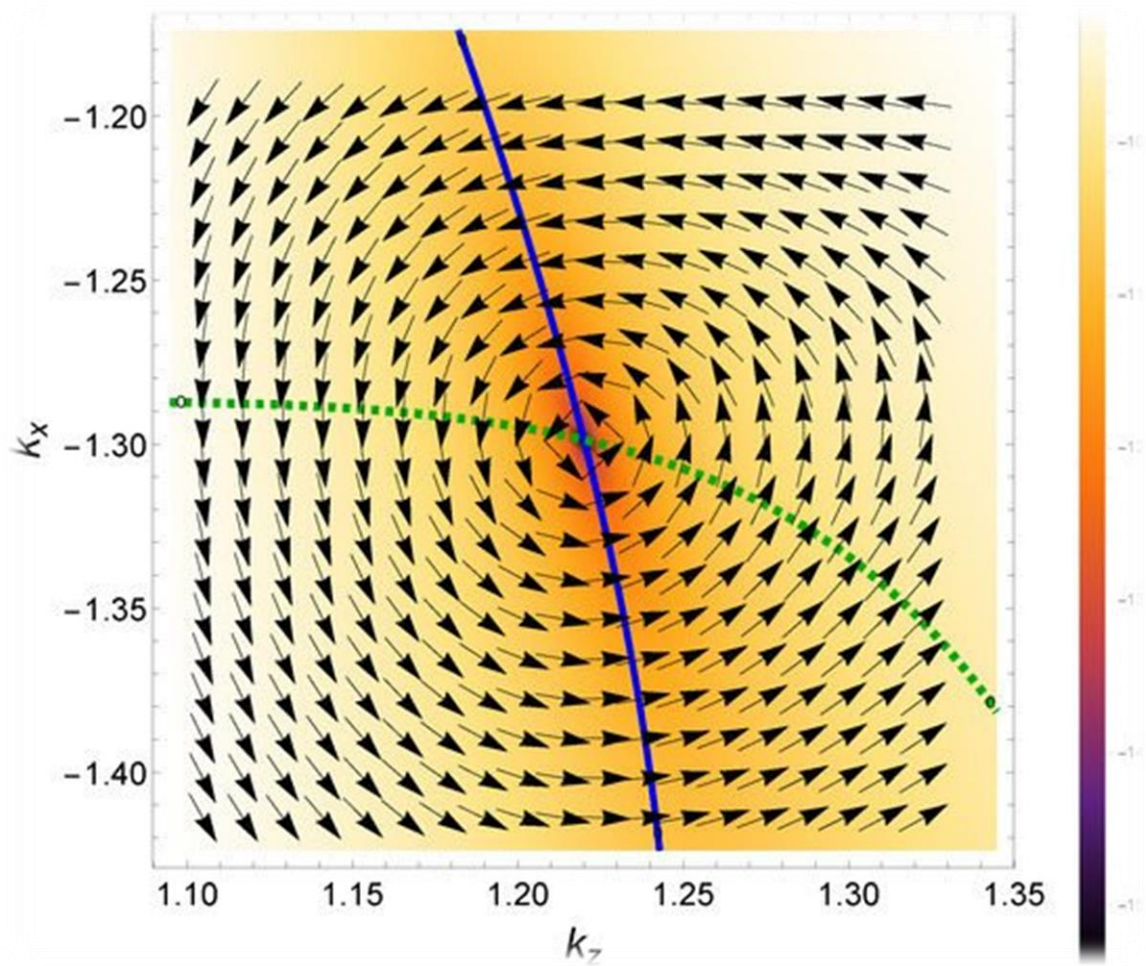




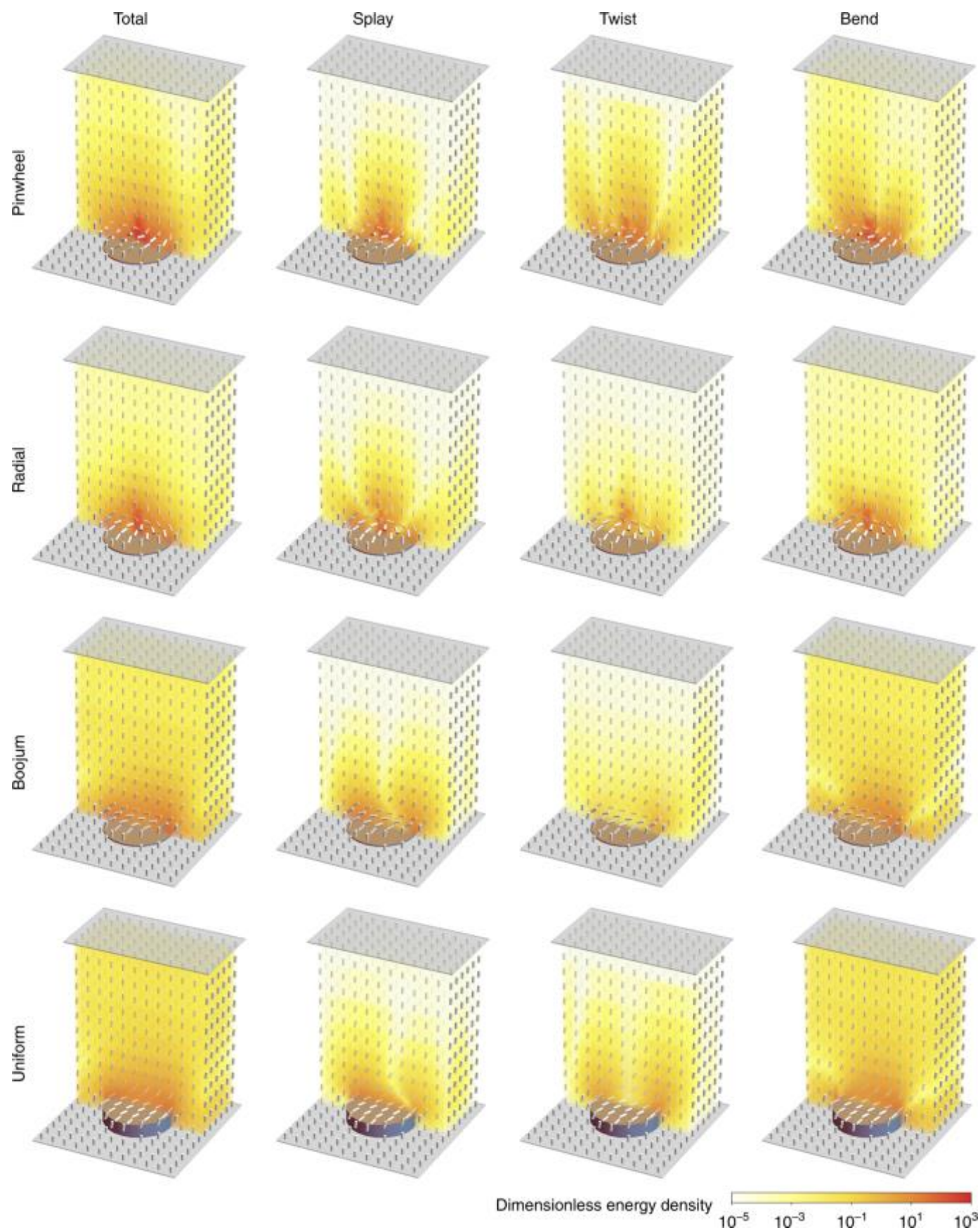




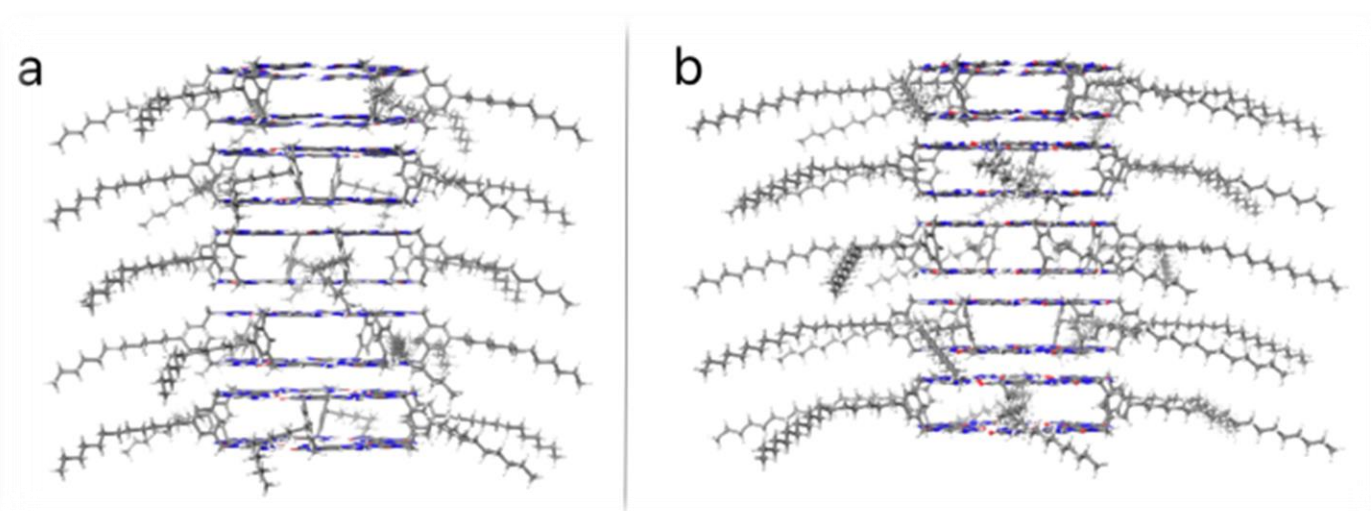
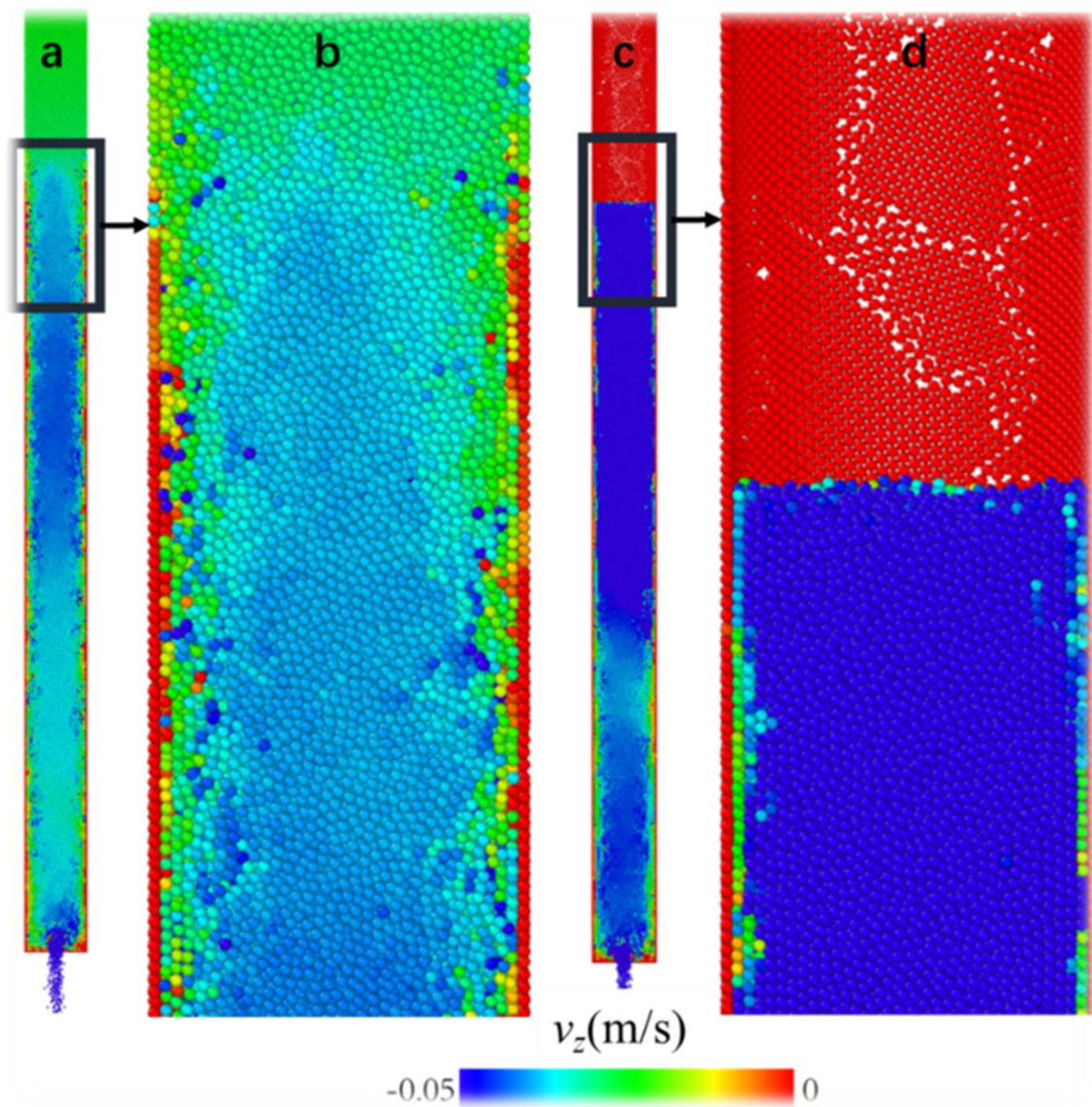




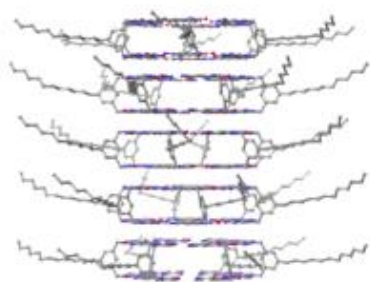




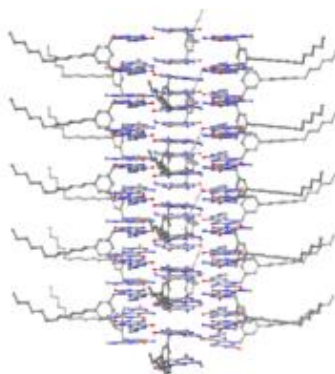




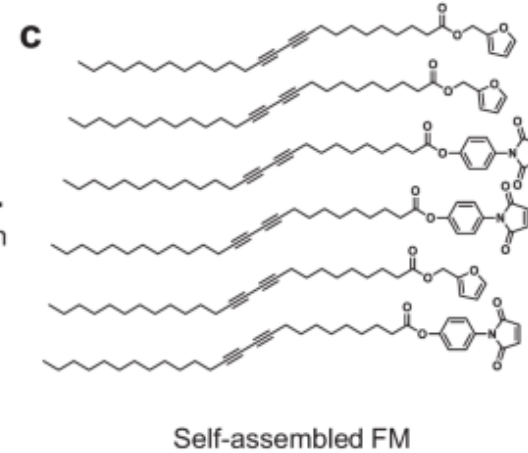
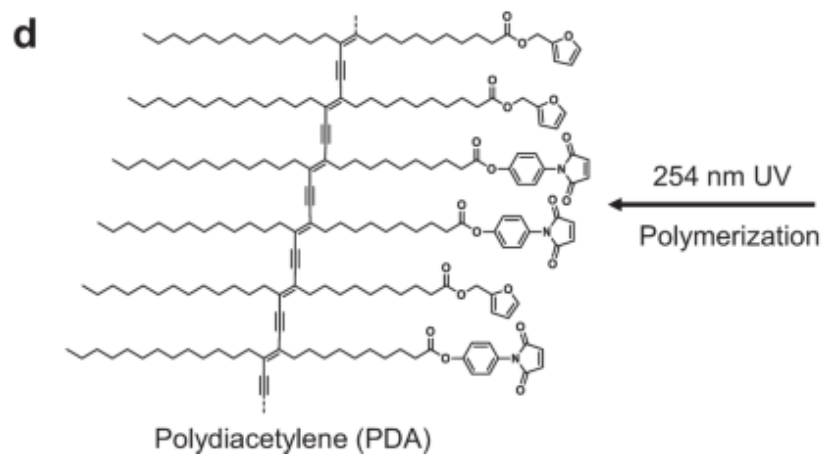
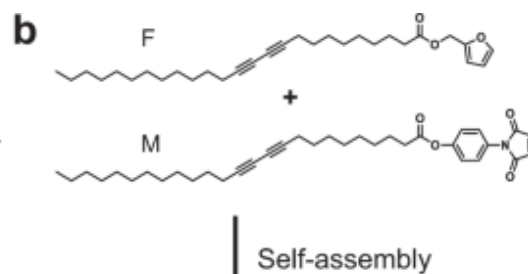
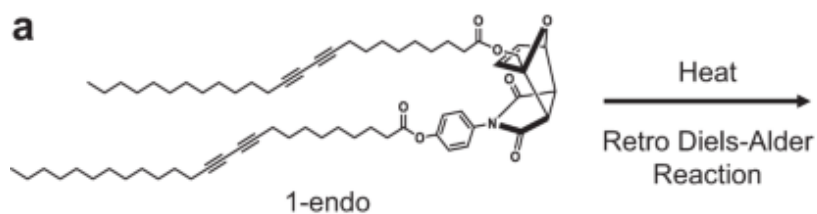
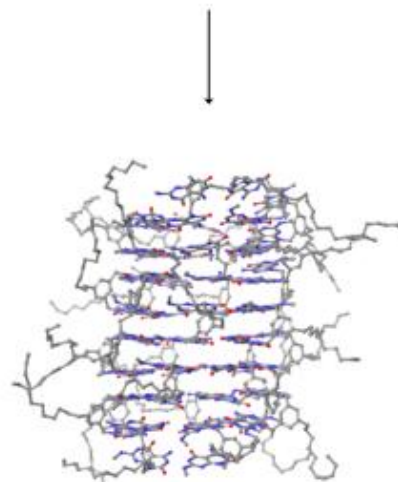
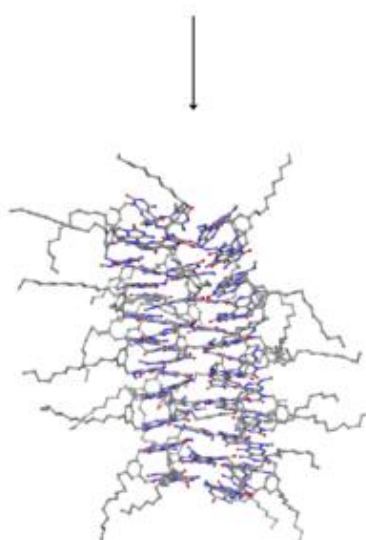
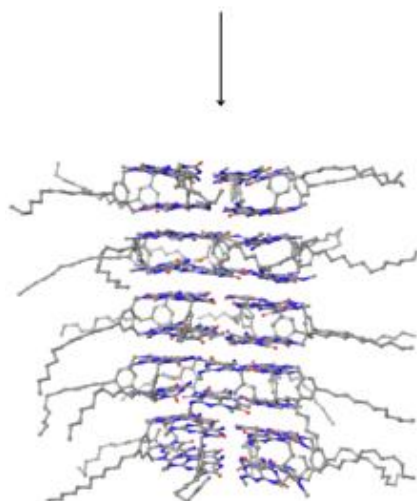
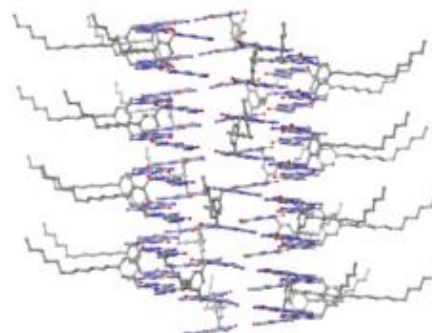
Ring Stack



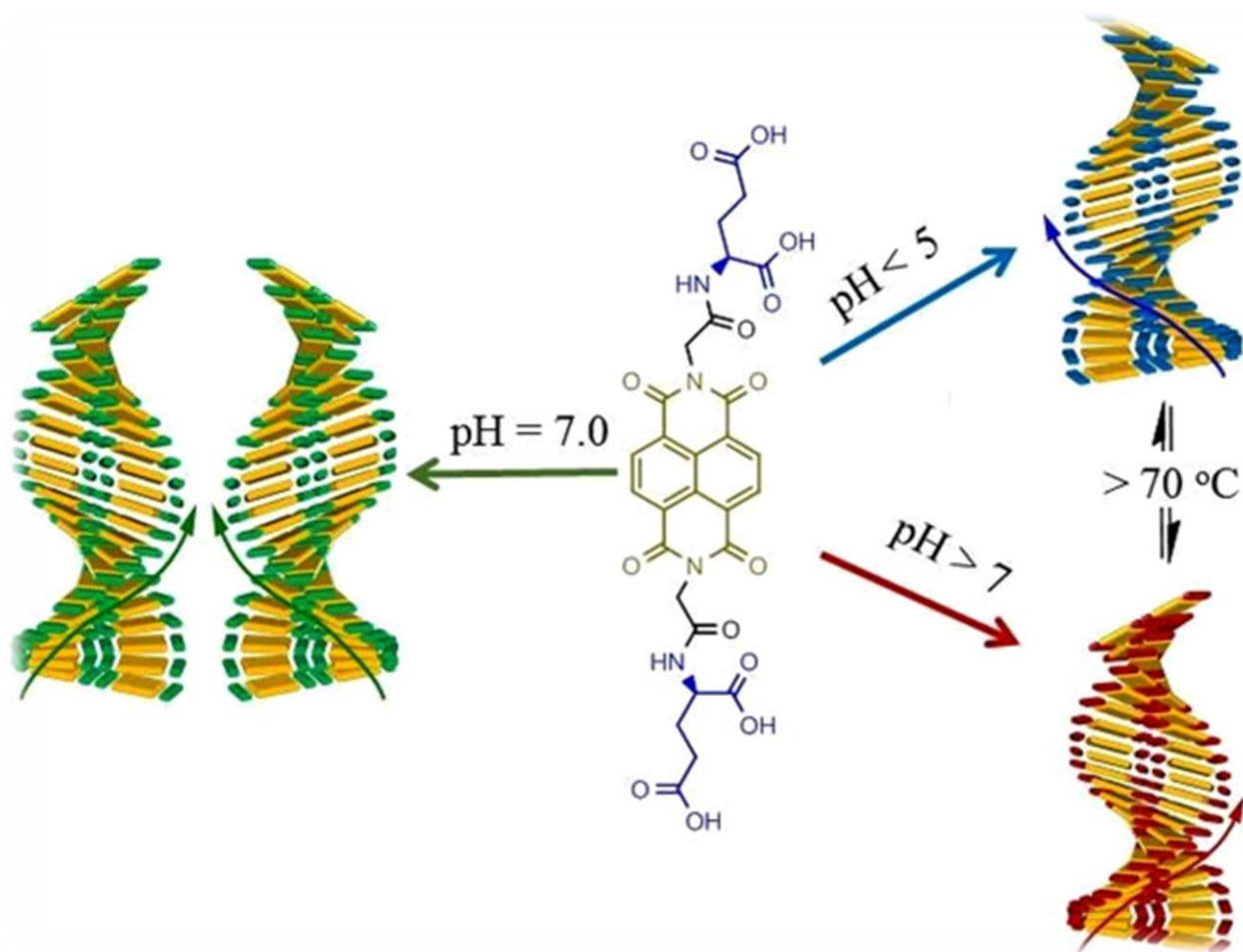
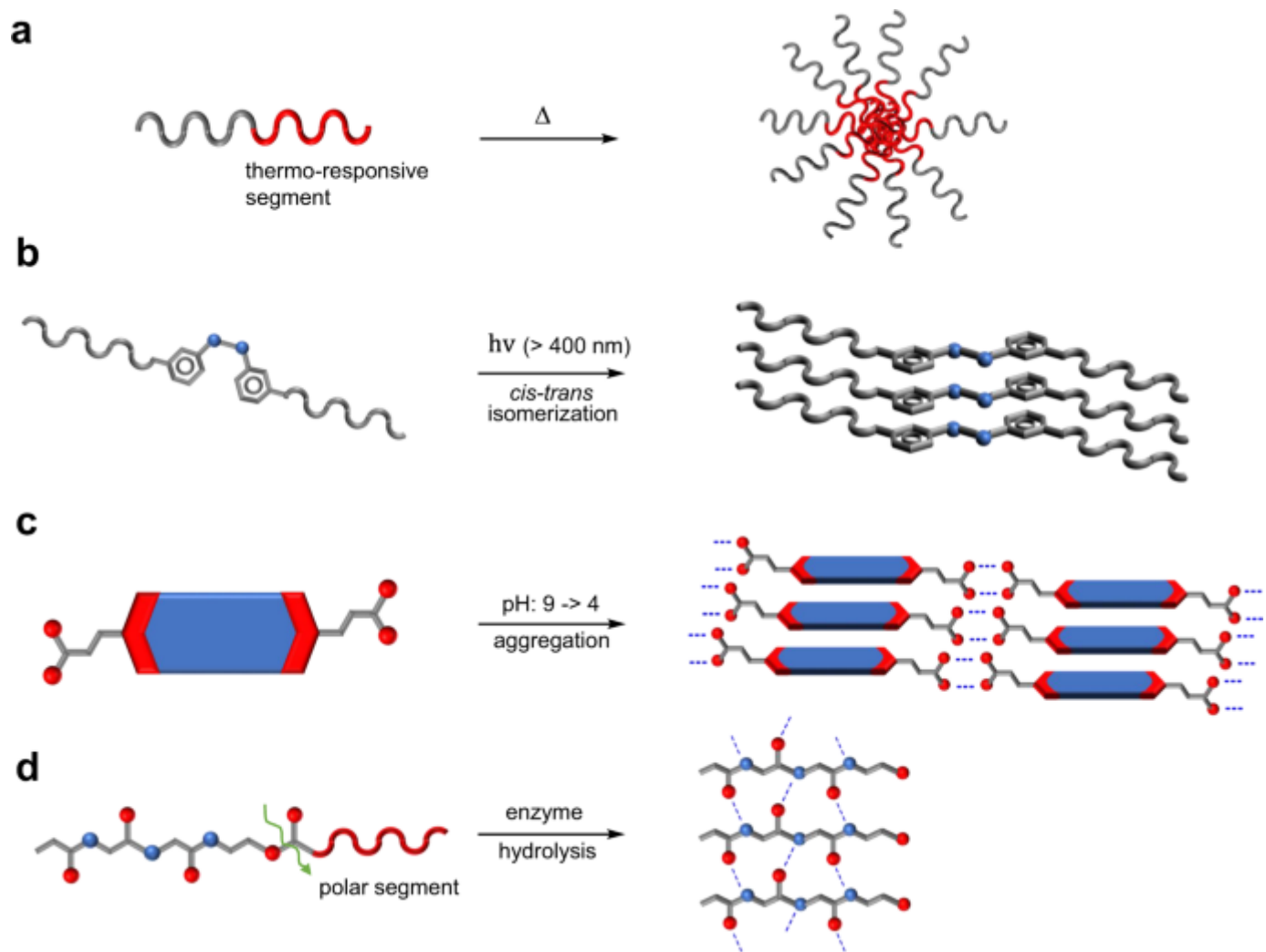
Offset

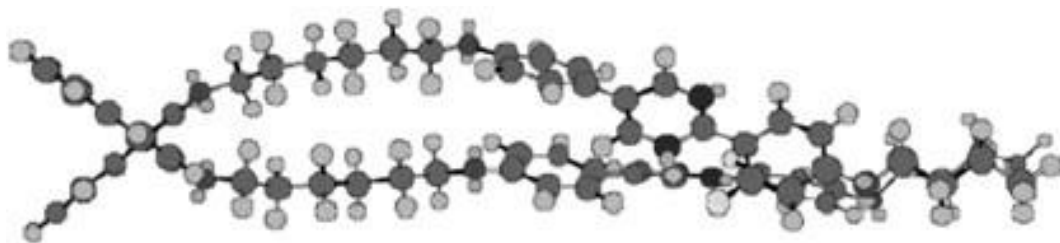


Helical Coil

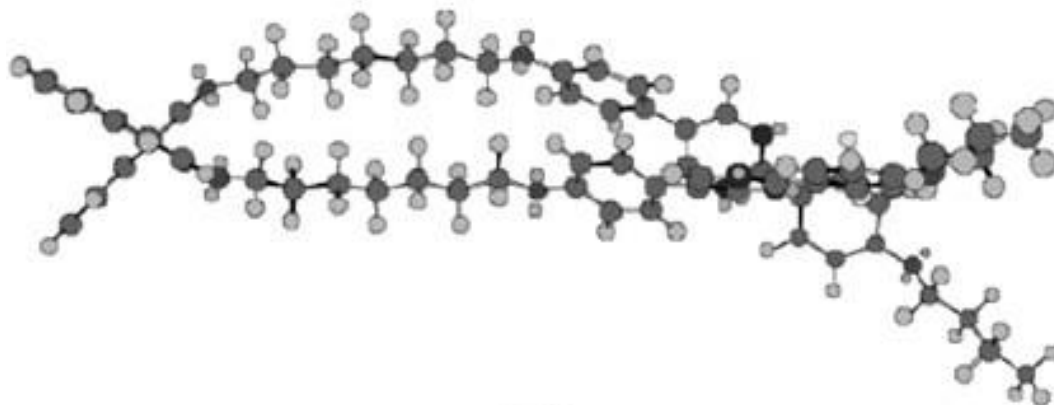




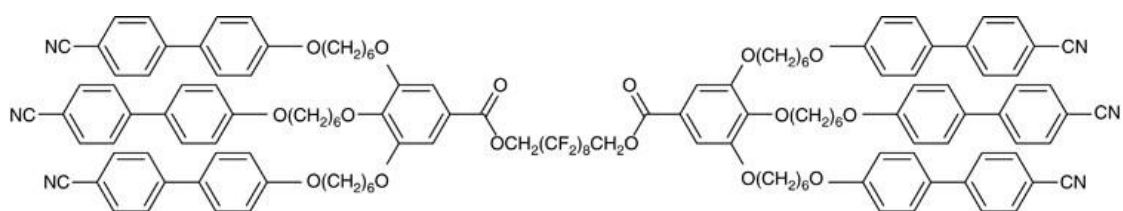




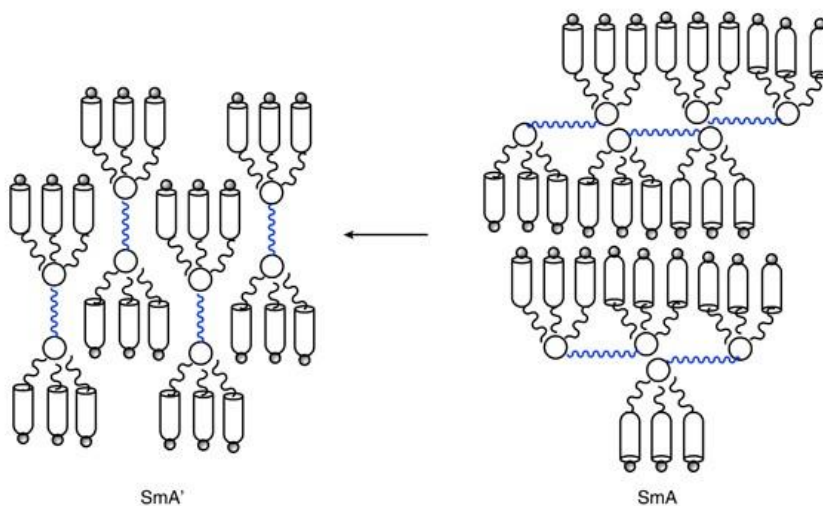
**7-6**



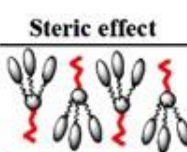
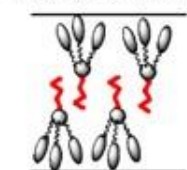
**7-7**



**6:** Cr 122.0 °C [SmA' 46.8 °C SmA 101.8 °C N 121.4 °C] Iso

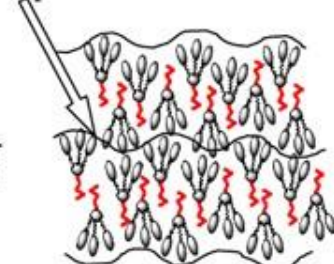


**Segregation effect**

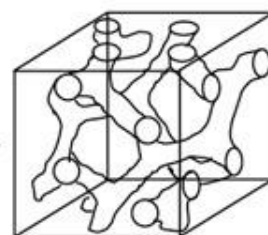


**Dipole-dipole interactions**

**Competition**

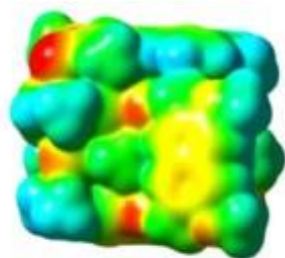


**Fluctuated lamellar structure**



**Bicontinuous cubic phase**



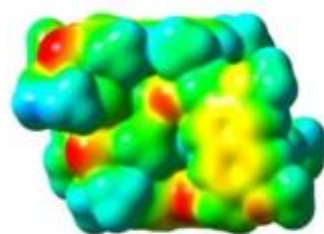
**a**

$$|\mu_g| = 0 \text{ D}$$

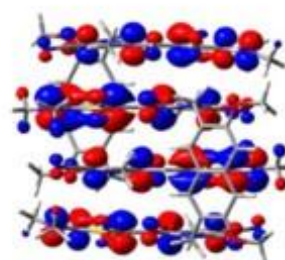
-0.05 a.u.



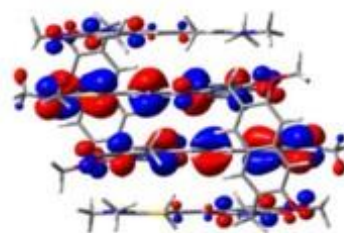
0.05 a.u.



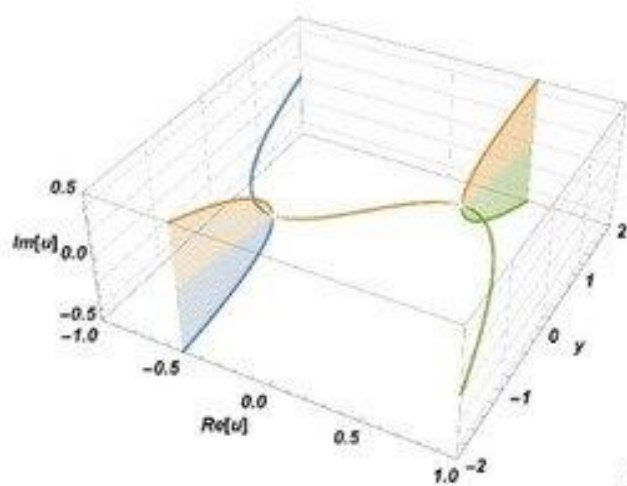
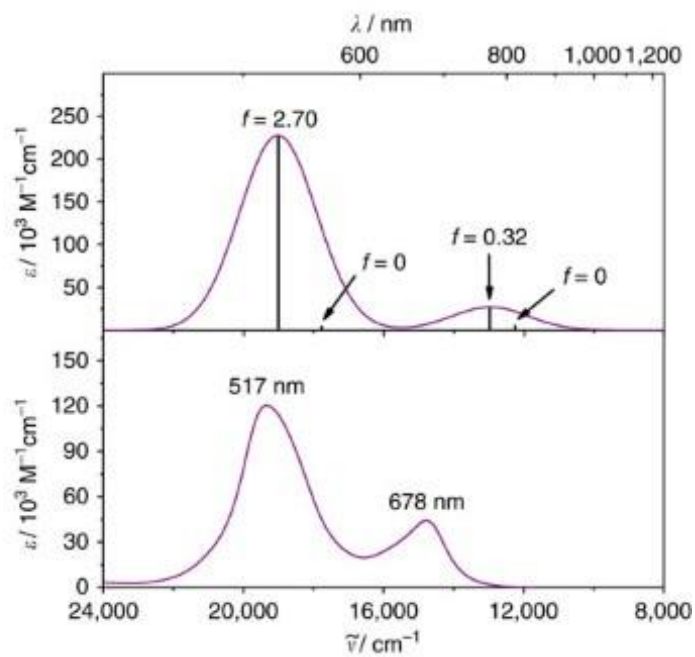
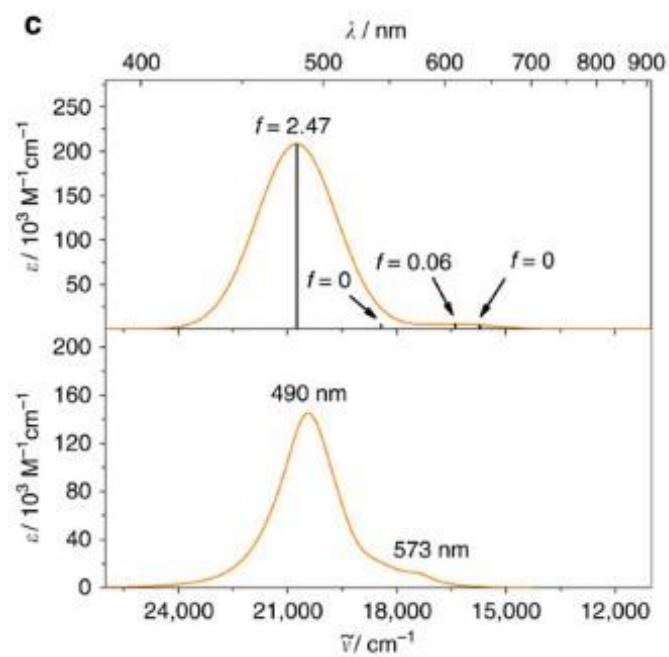
$$|\mu_g| = 0 \text{ D}$$

**b**

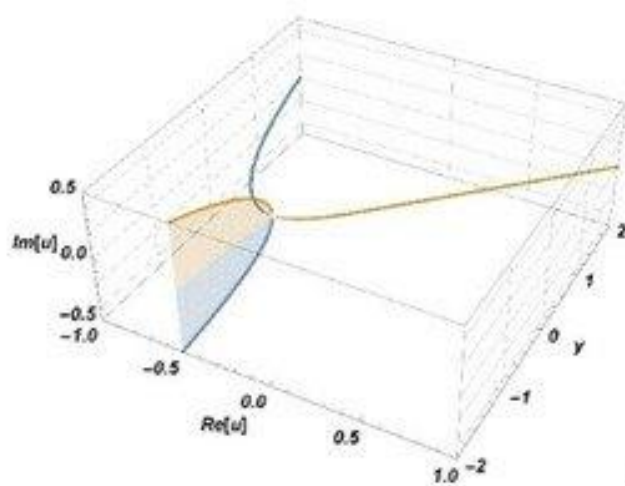
HOMO: -4.48 eV



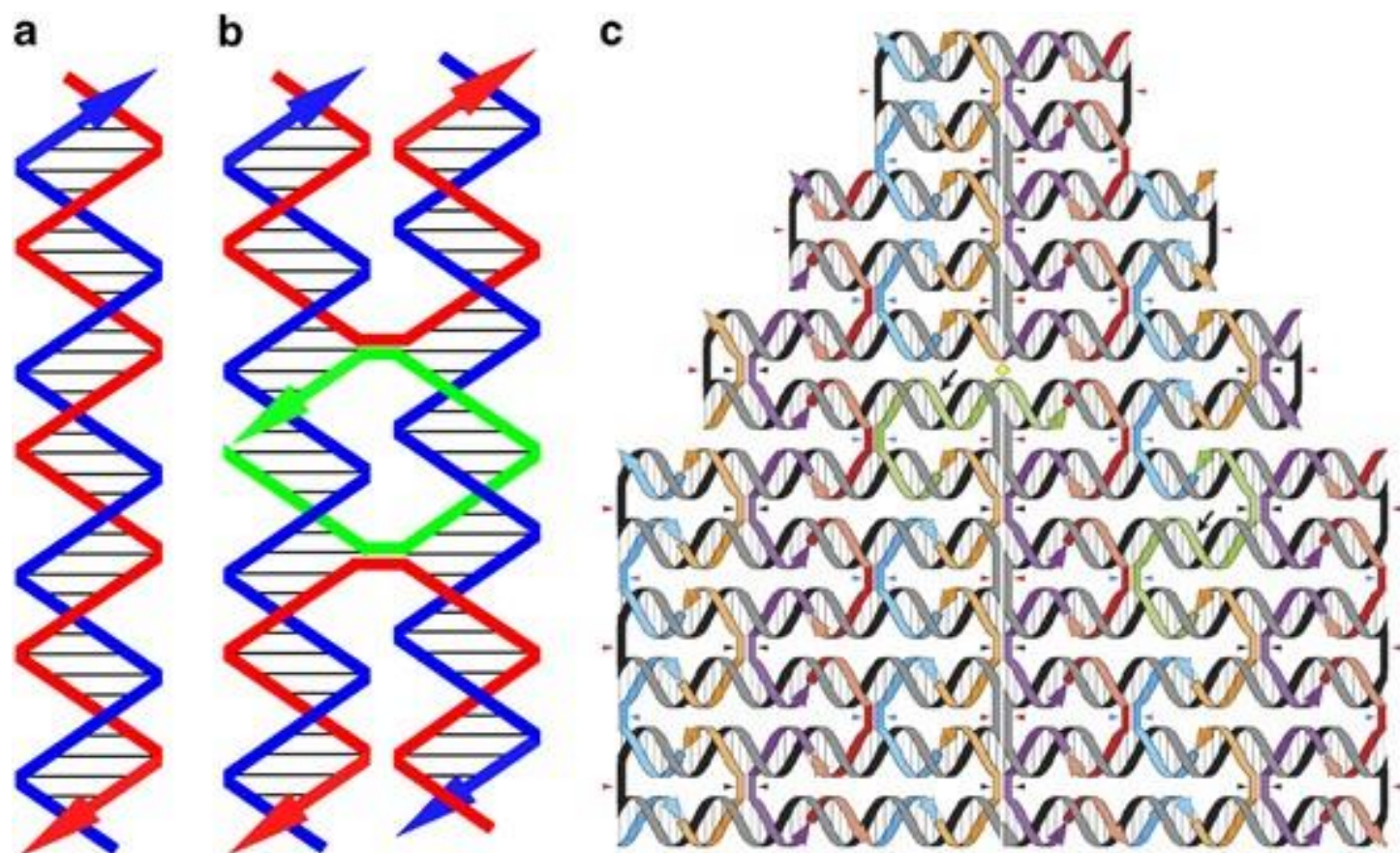
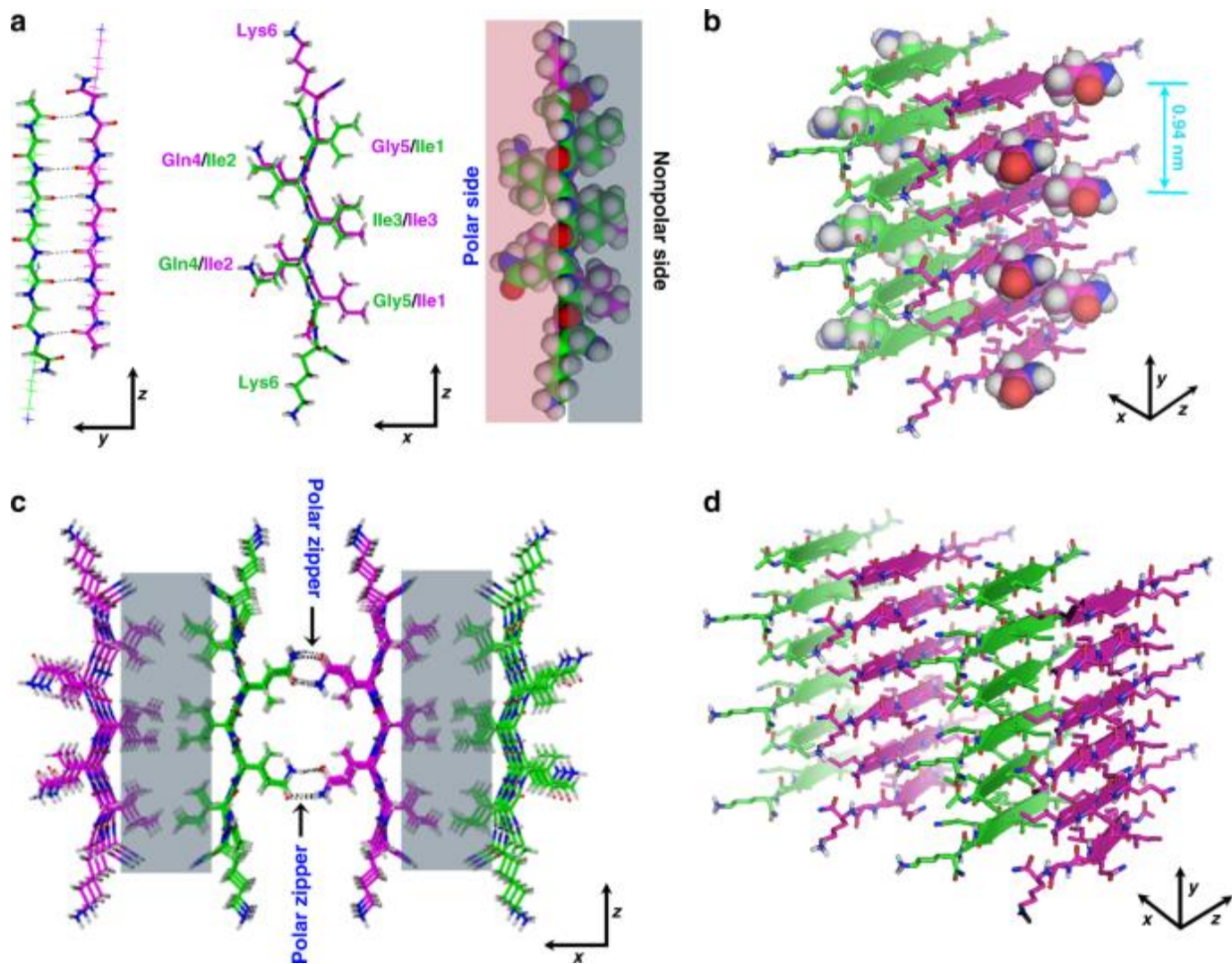
HOMO: -4.23 eV

**c**

(a)

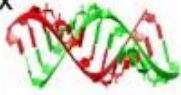


(b)

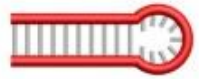




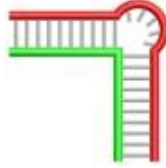
Duplex



Hairpin



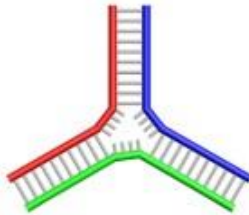
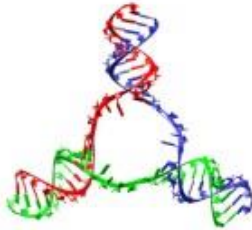
90°-kink



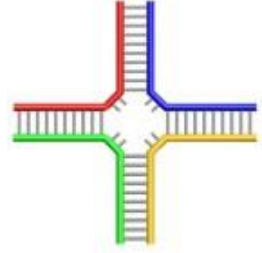
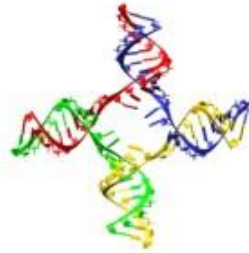
Kissing-loops (KL)



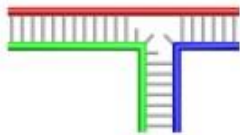
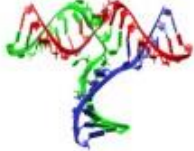
Open 3-way junction (o3WJ)



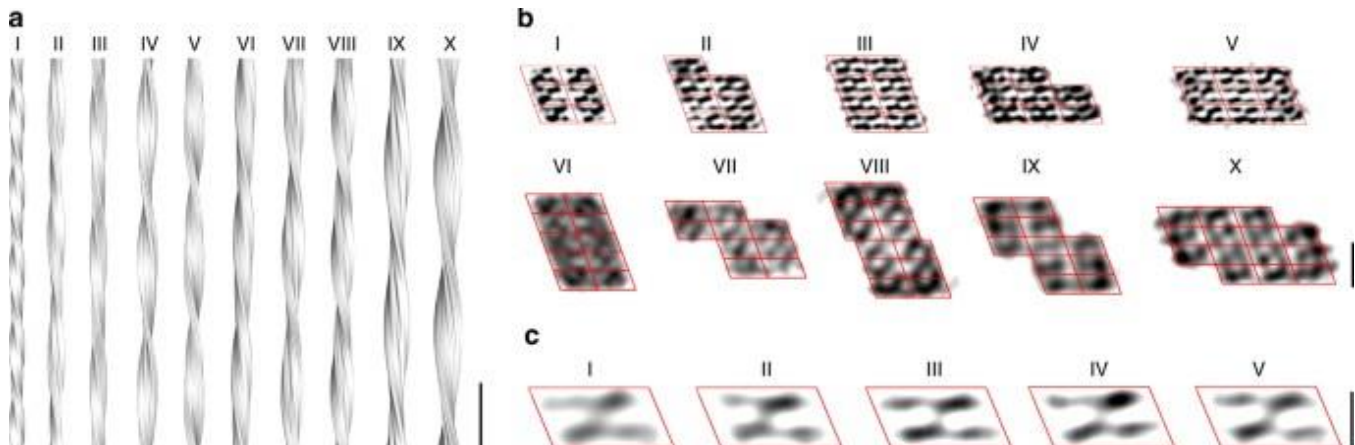
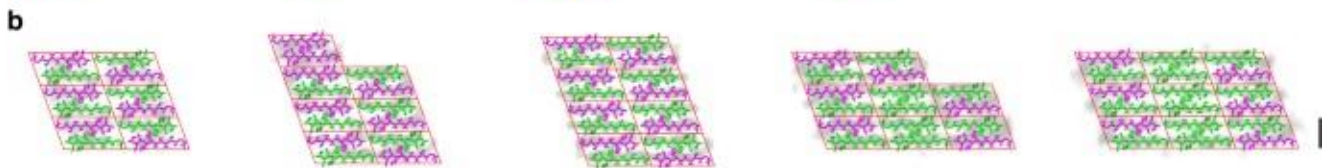
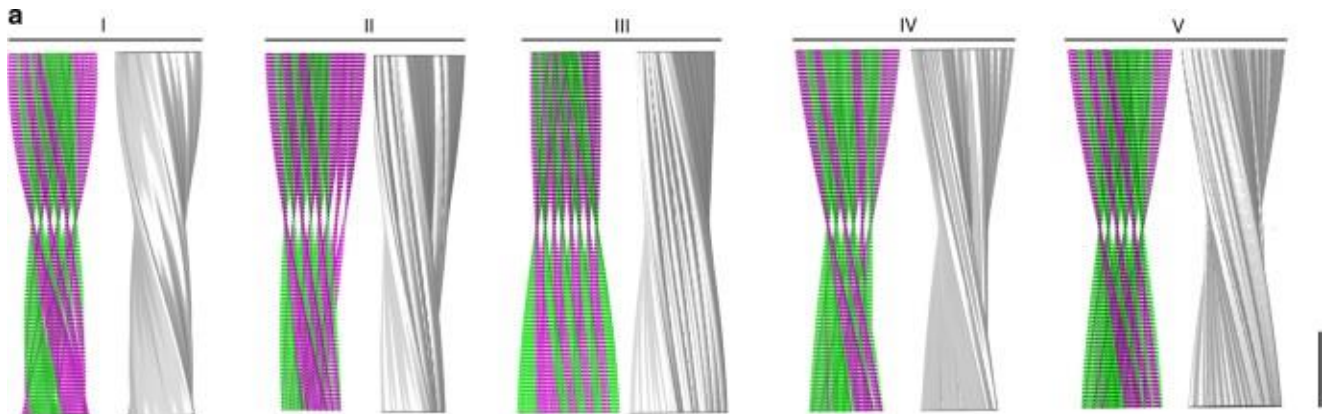
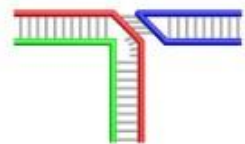
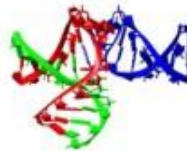
Open 4-way junction (o4WJ)

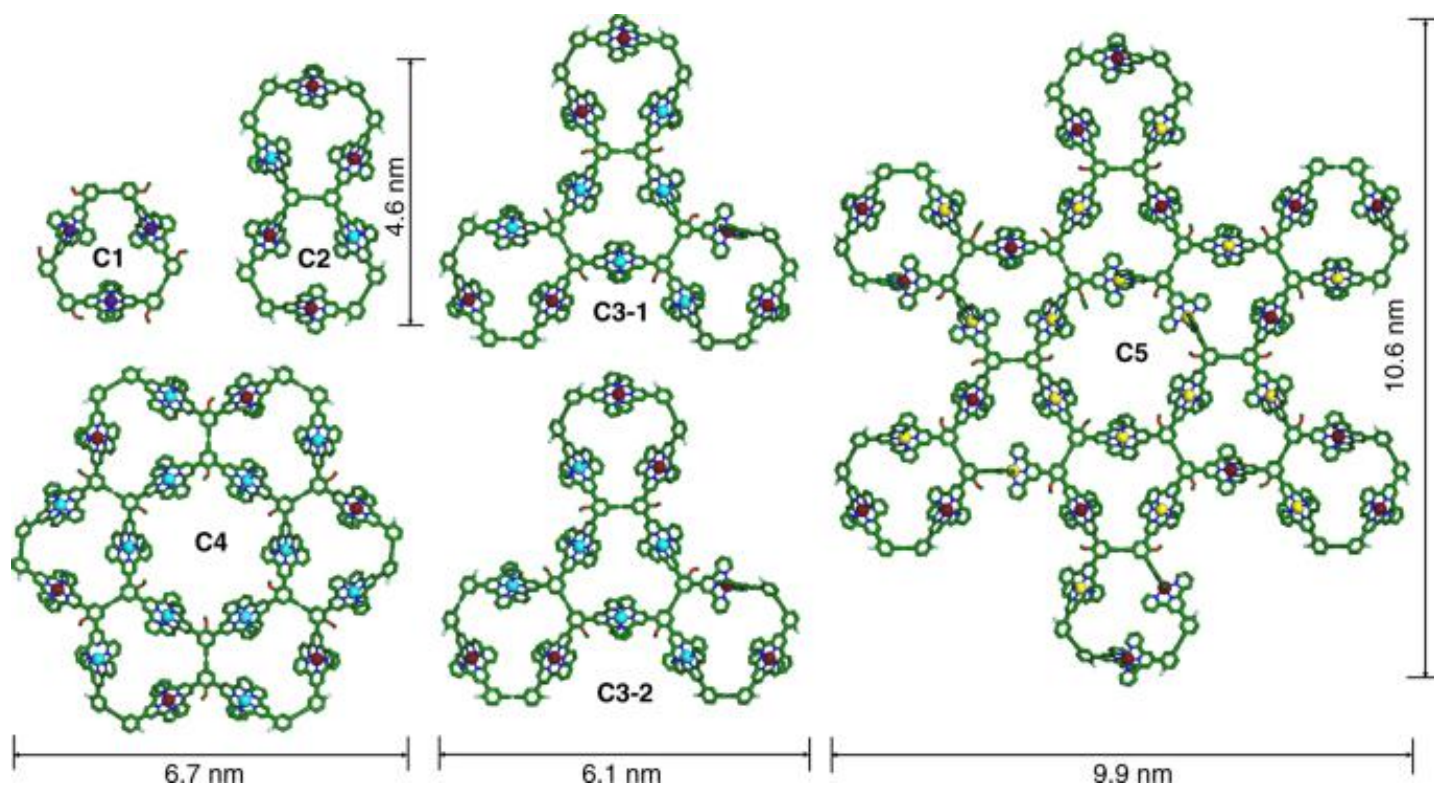
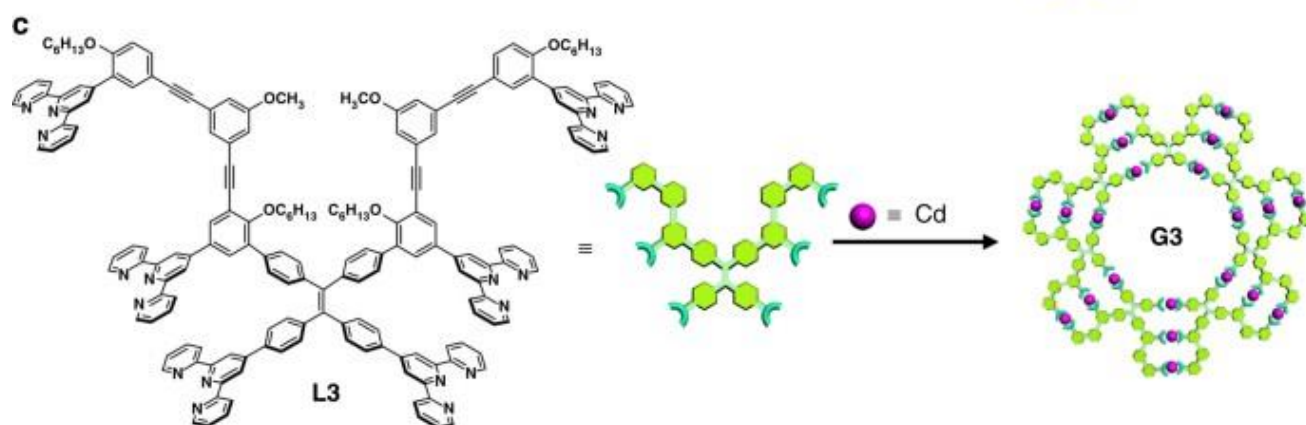
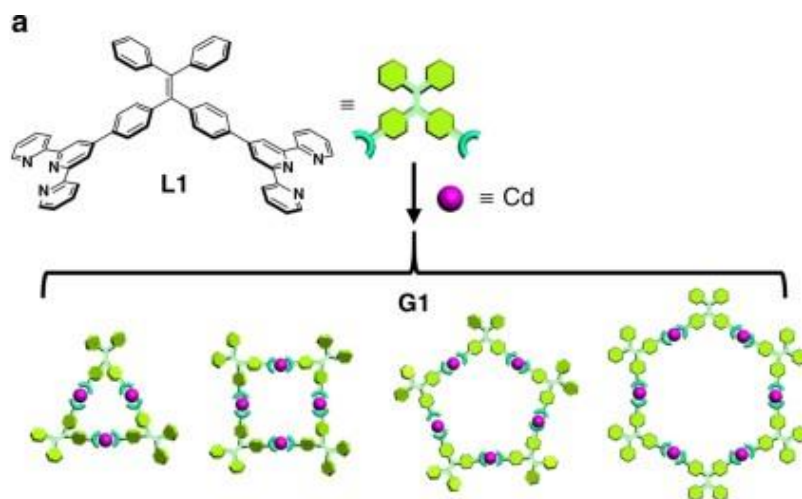


Stacked 3-way junction (s3WJ)

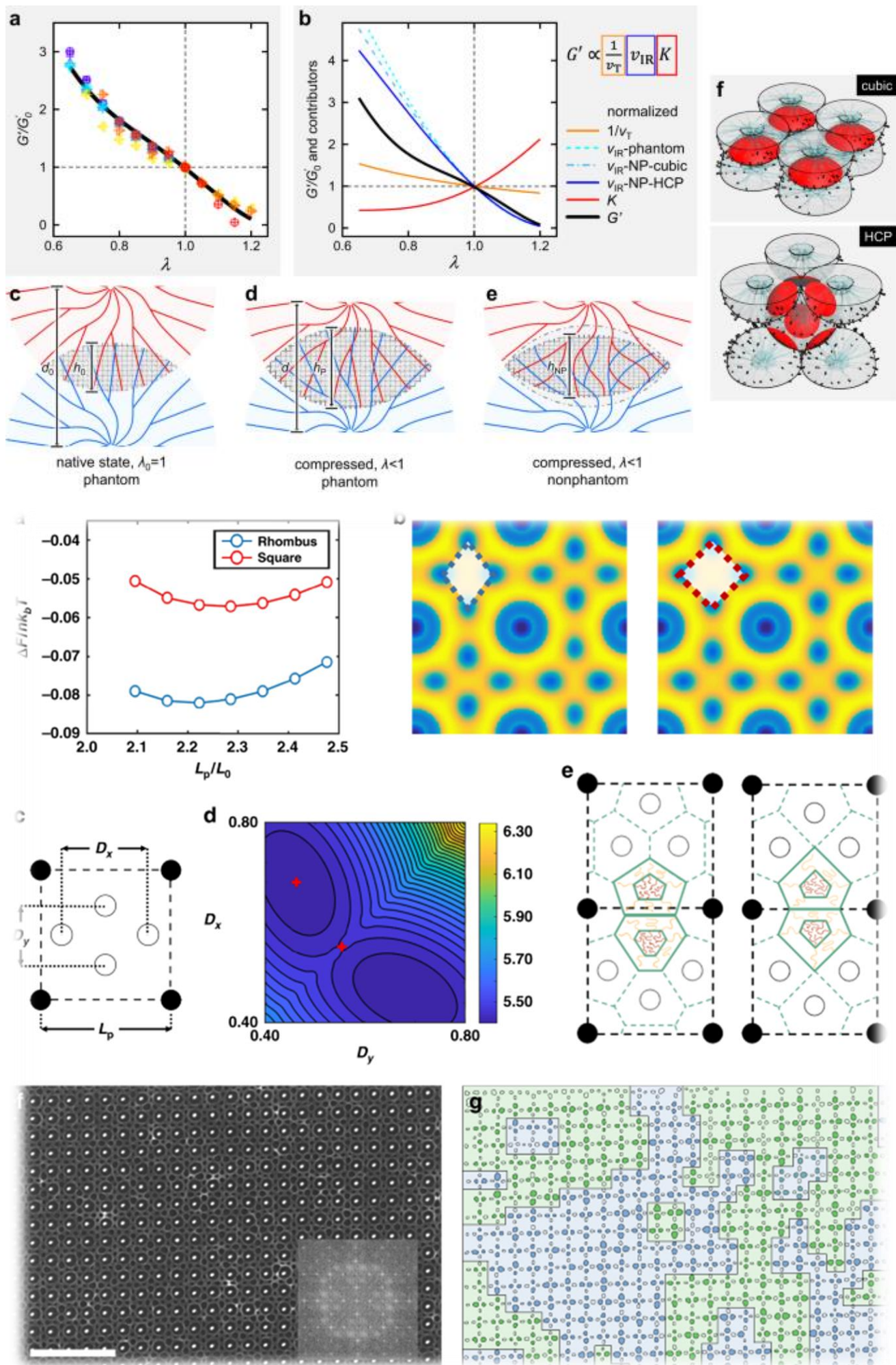


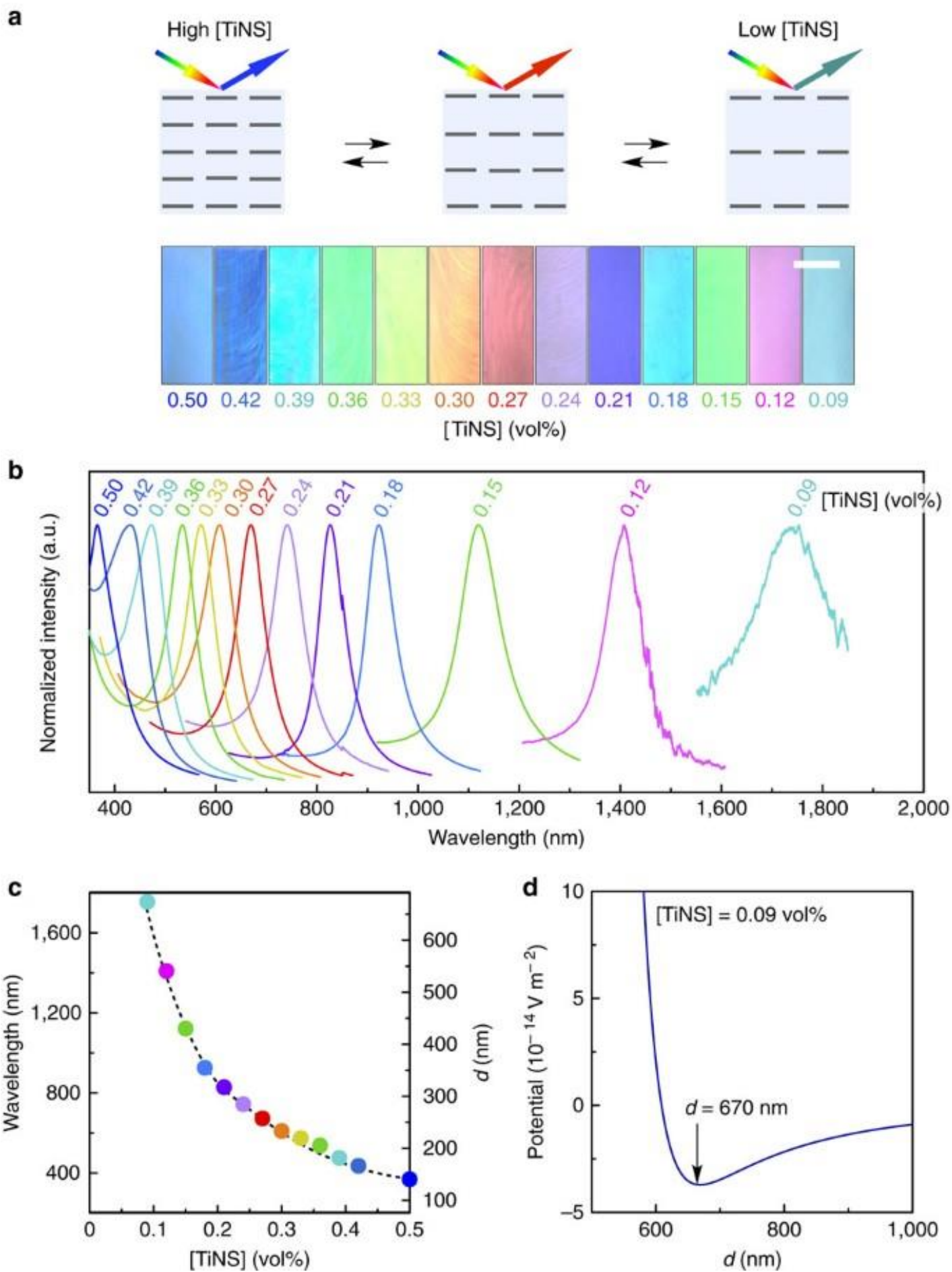
3-way loops (3WL)



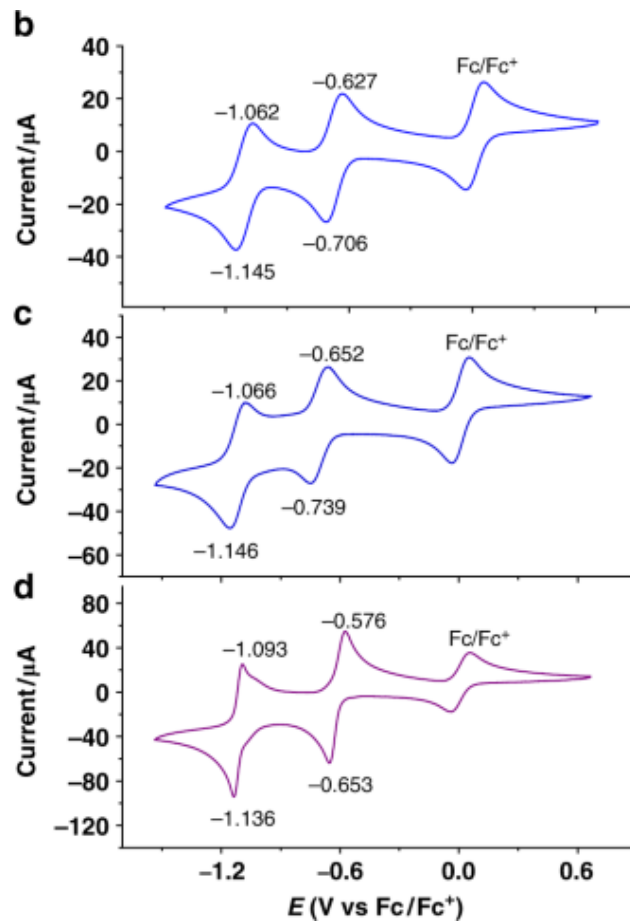
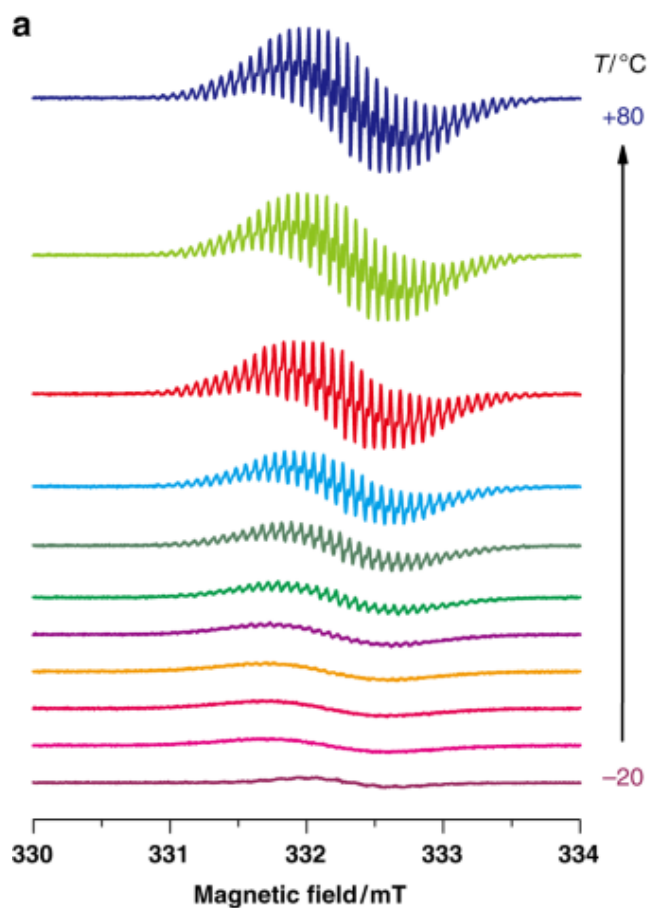
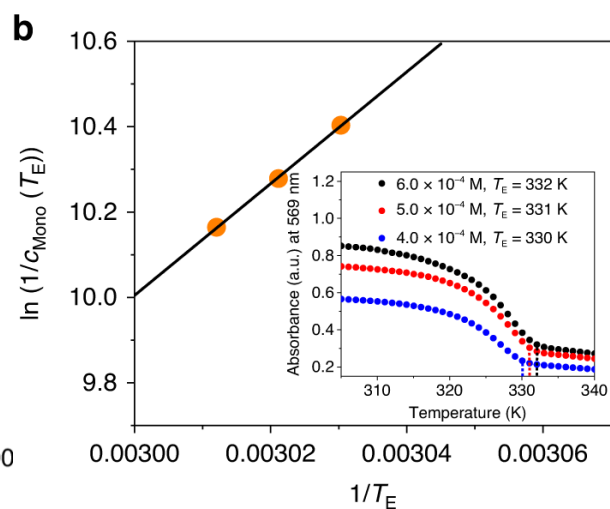
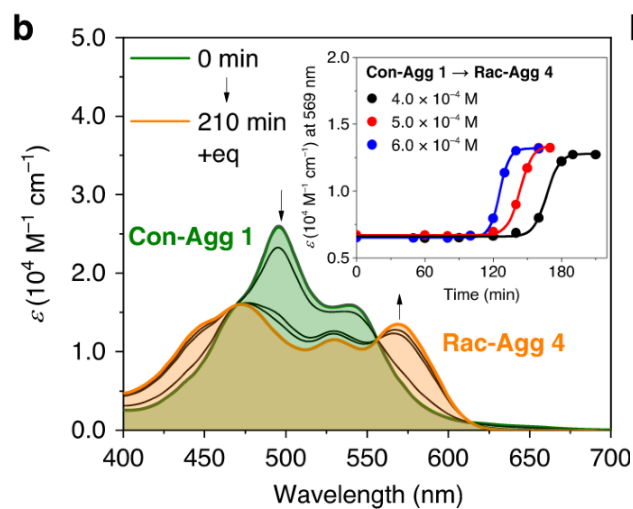
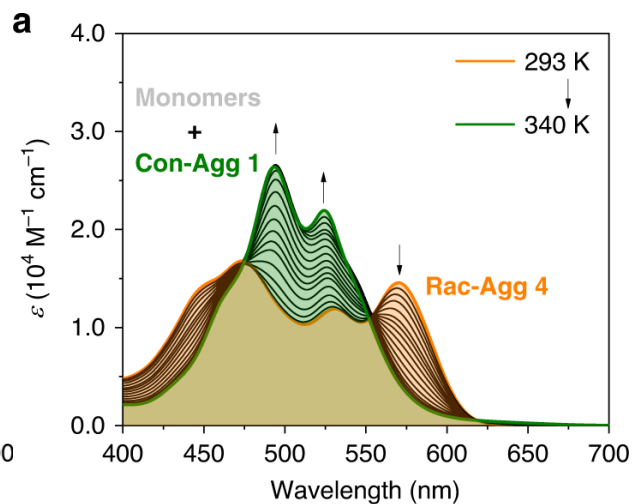
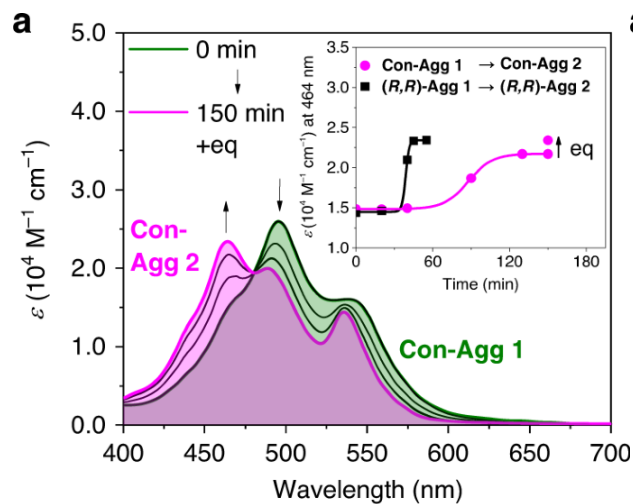


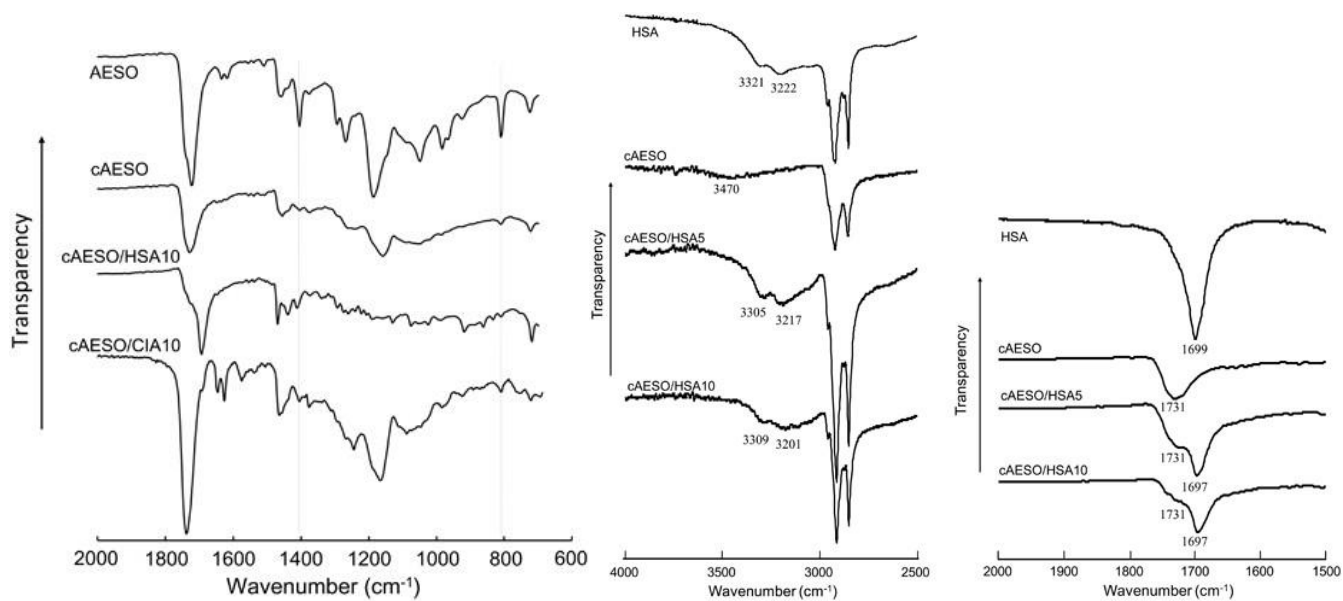
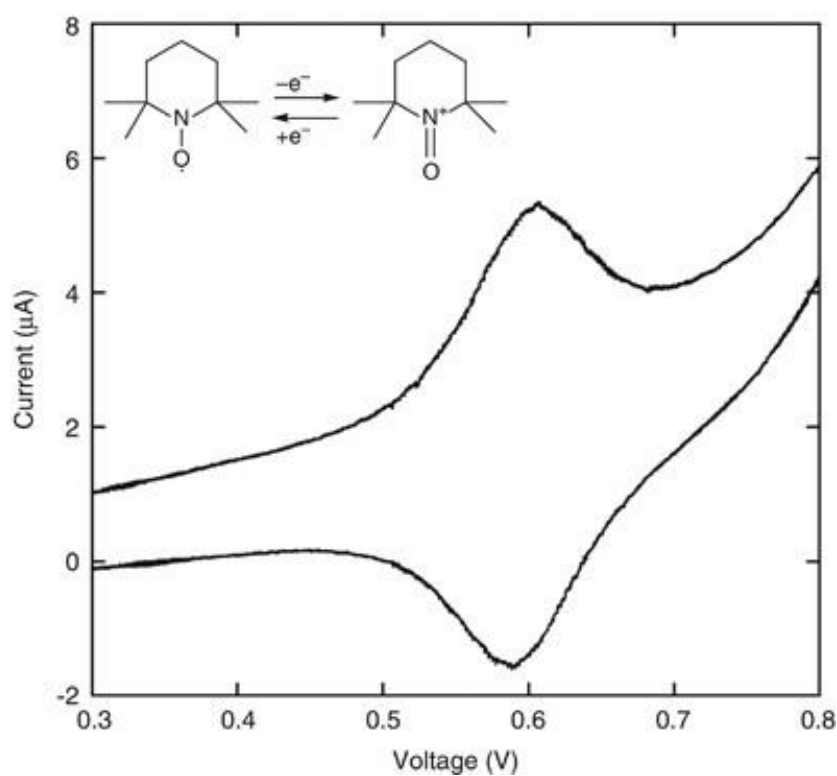
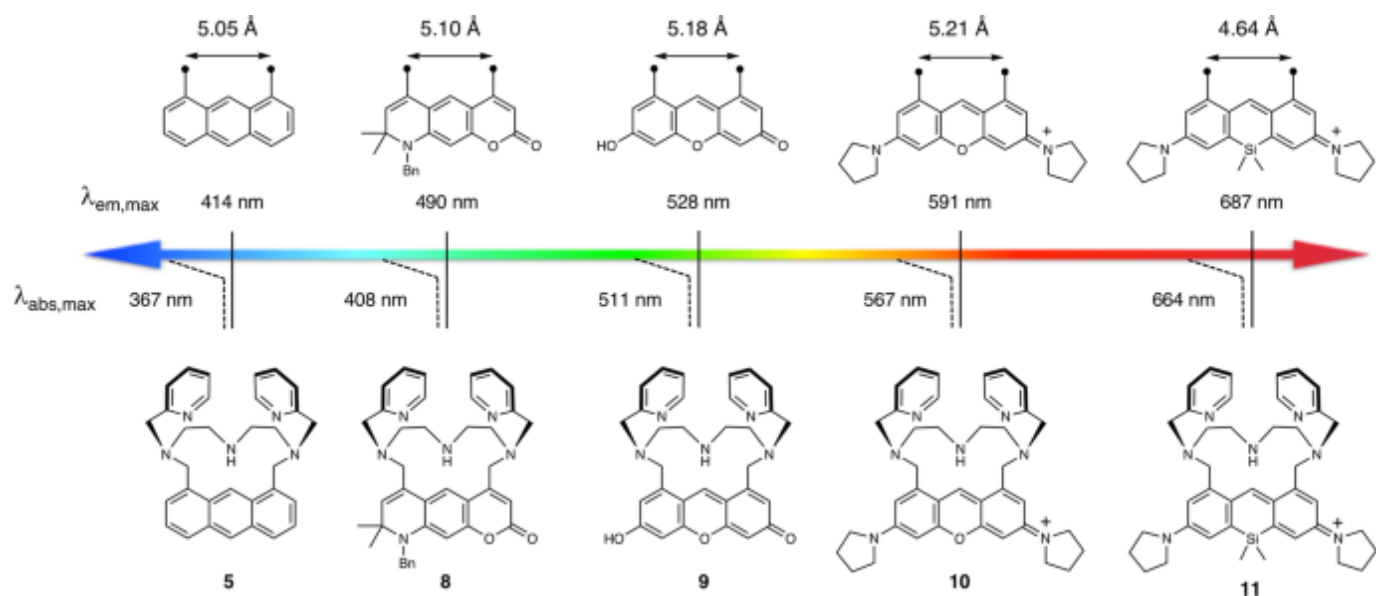




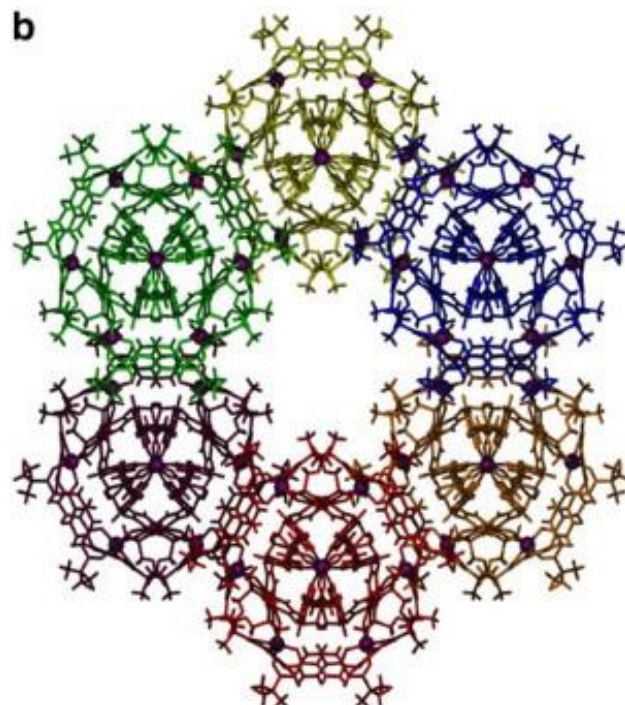
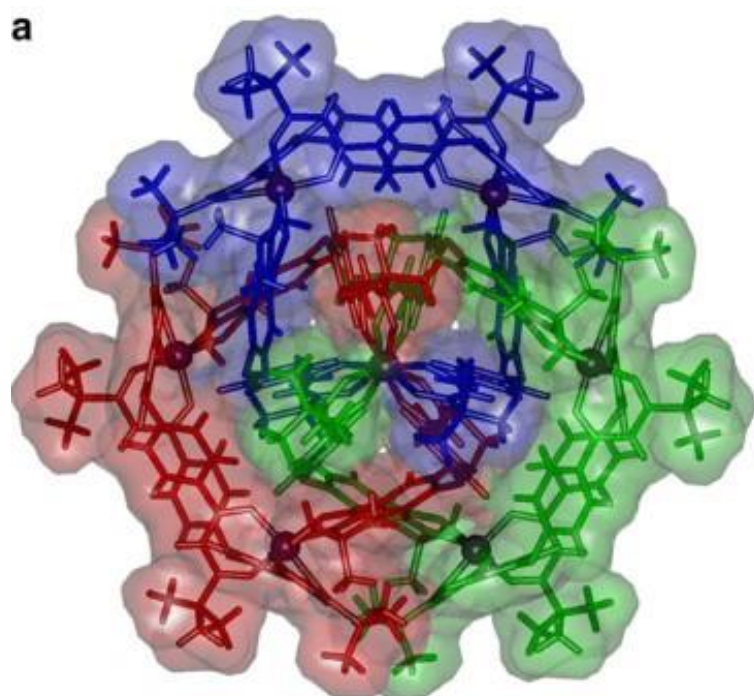
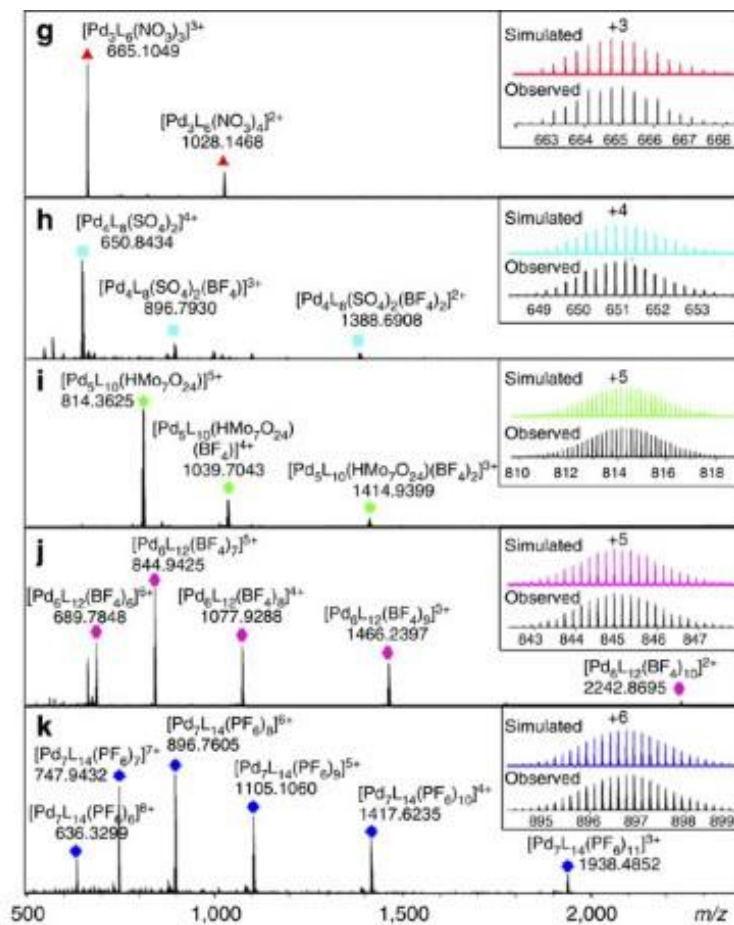
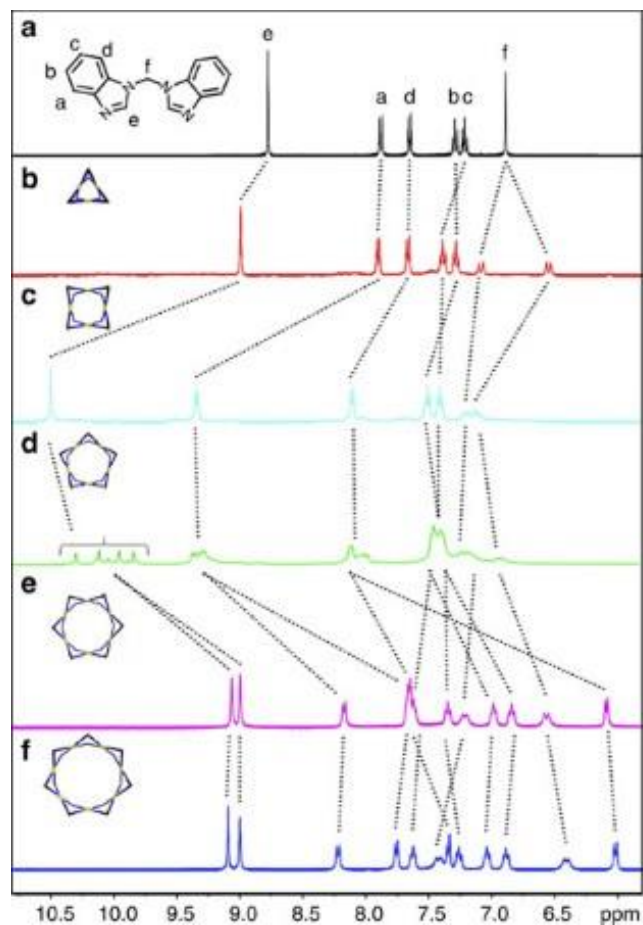


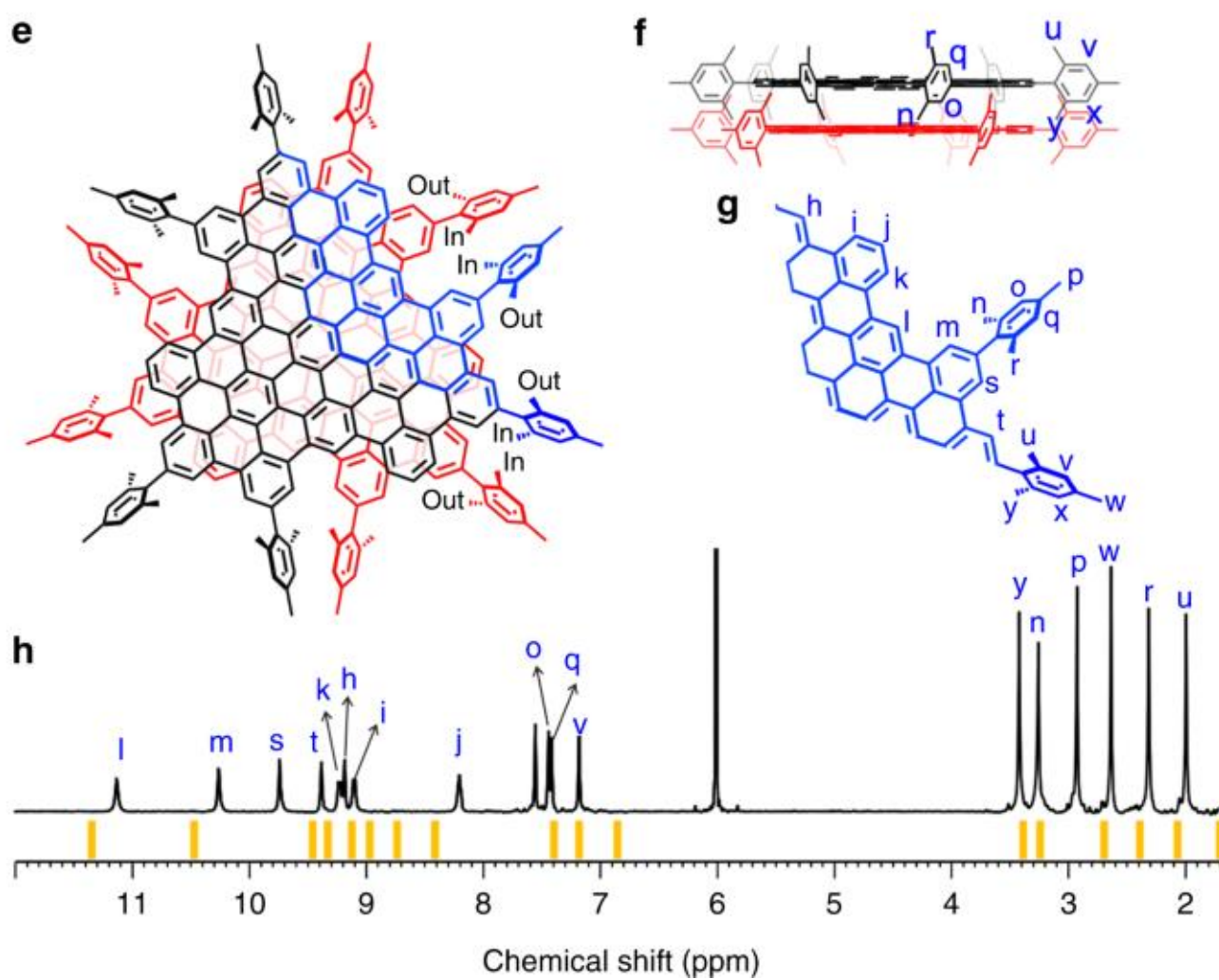
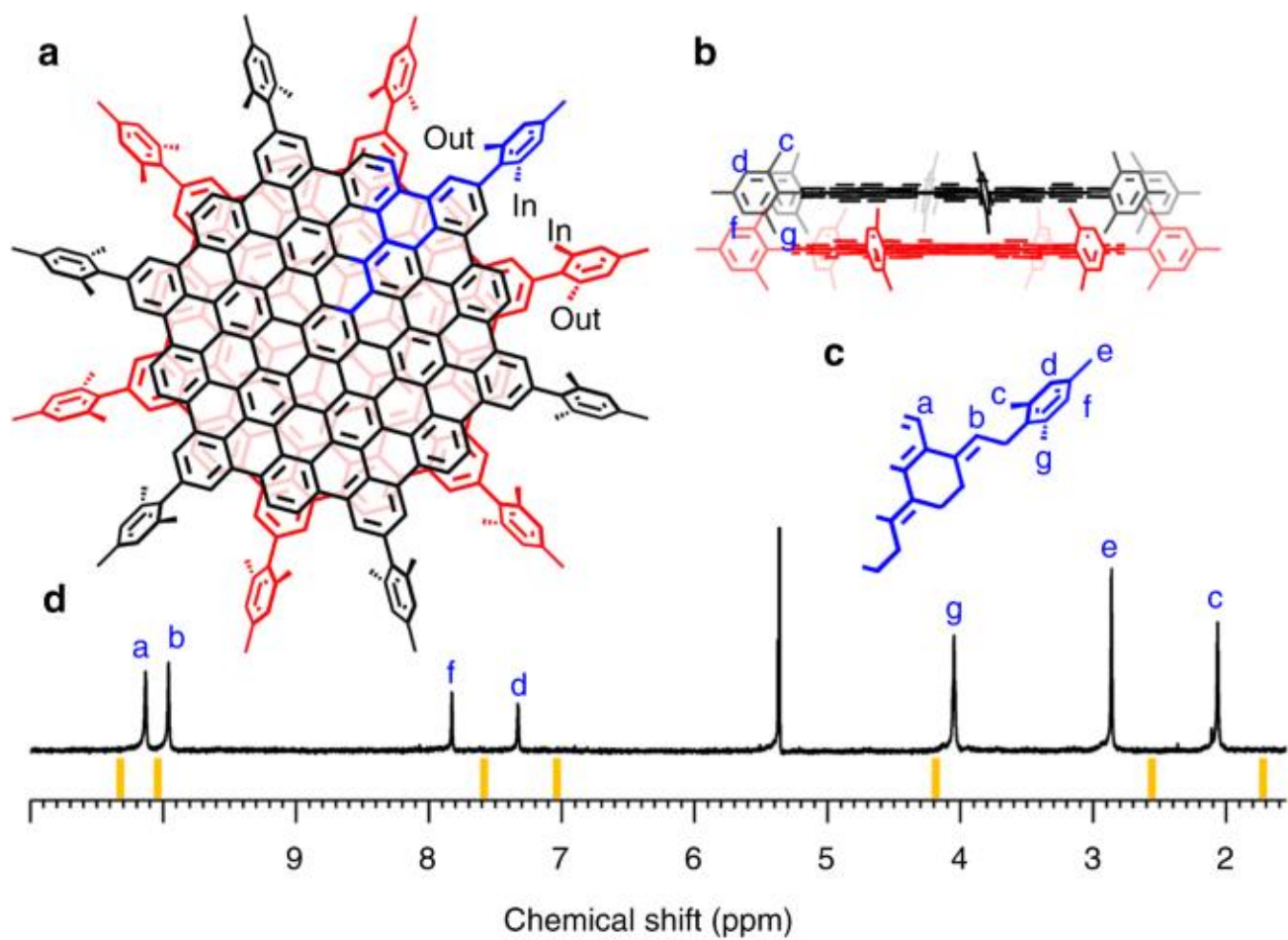




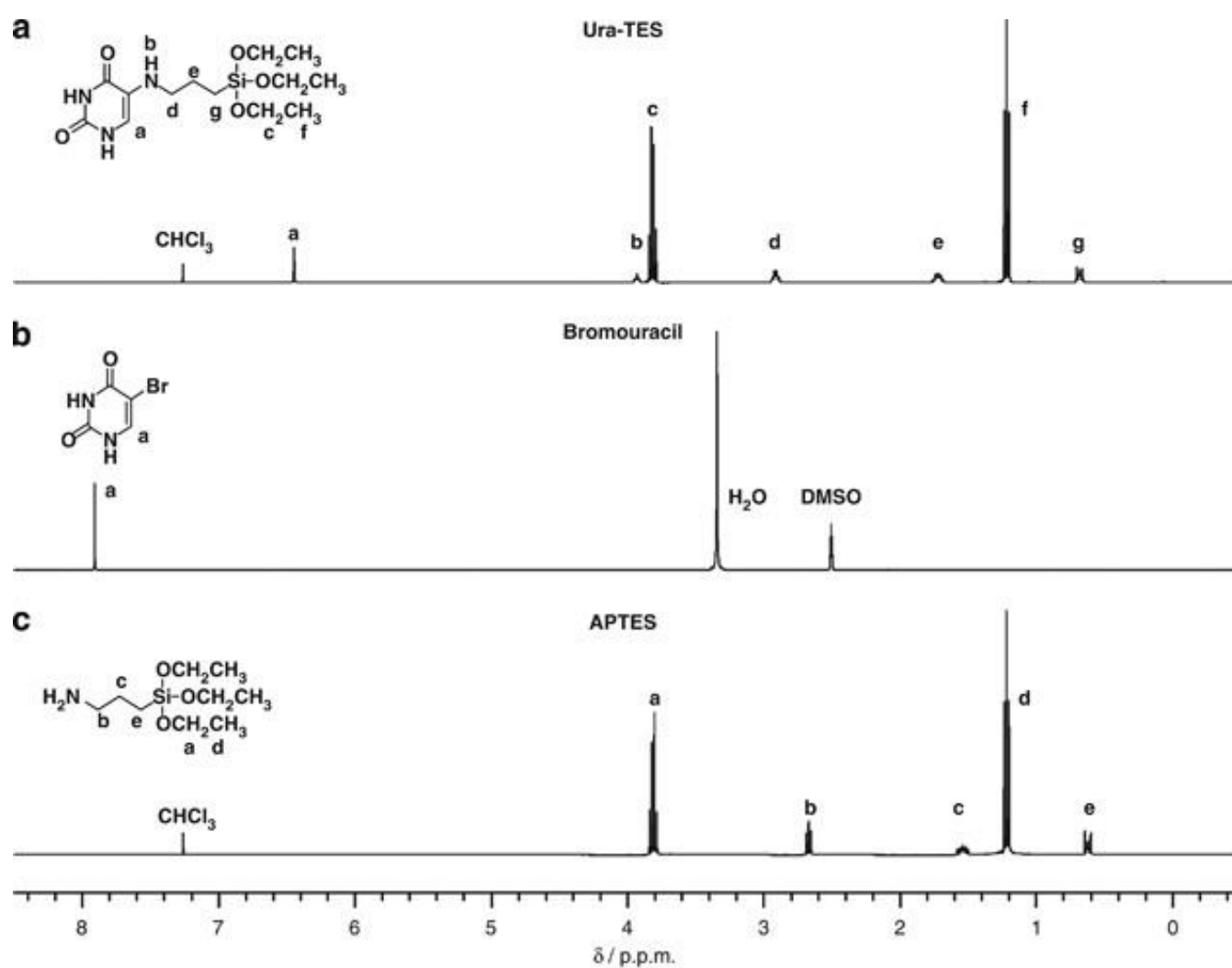
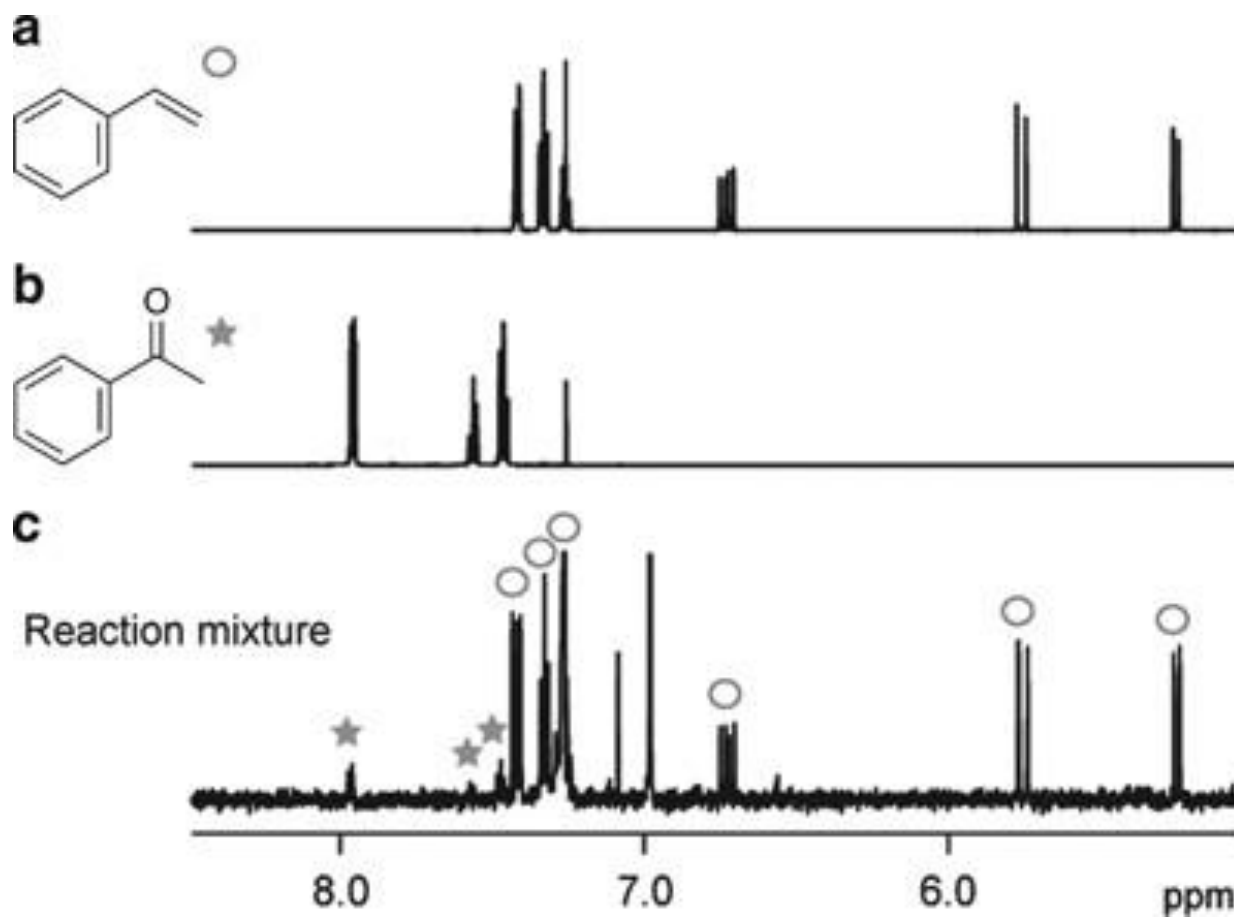


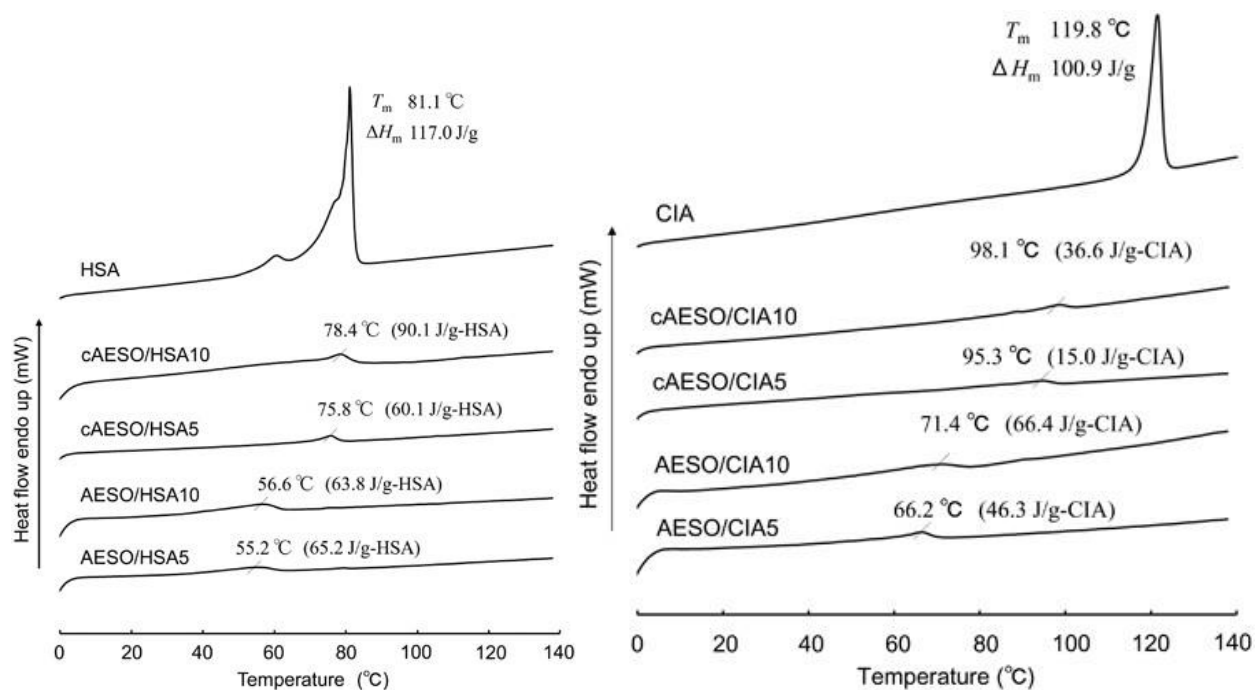
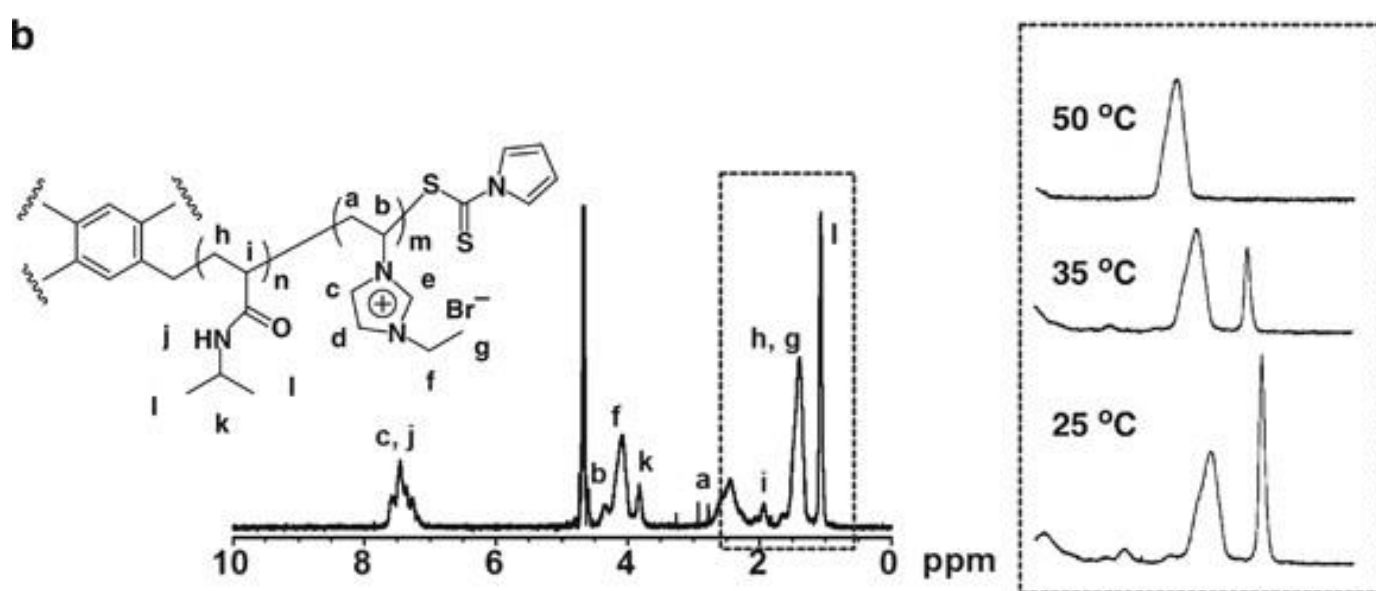
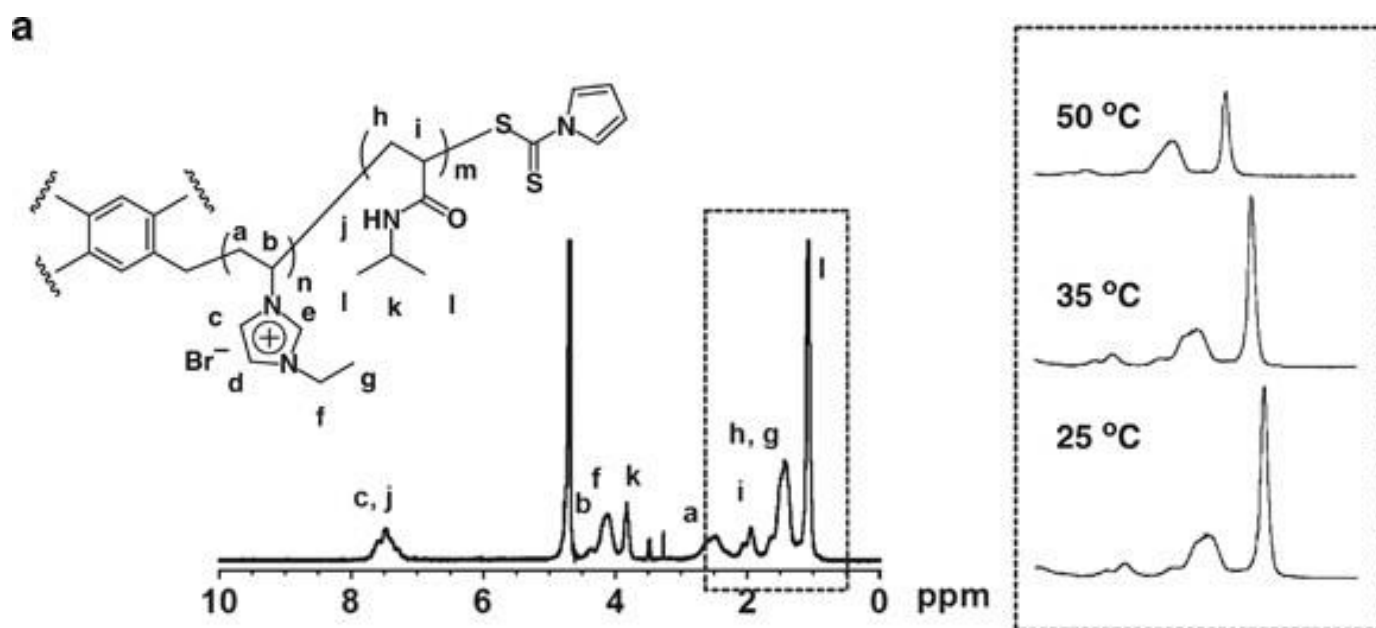




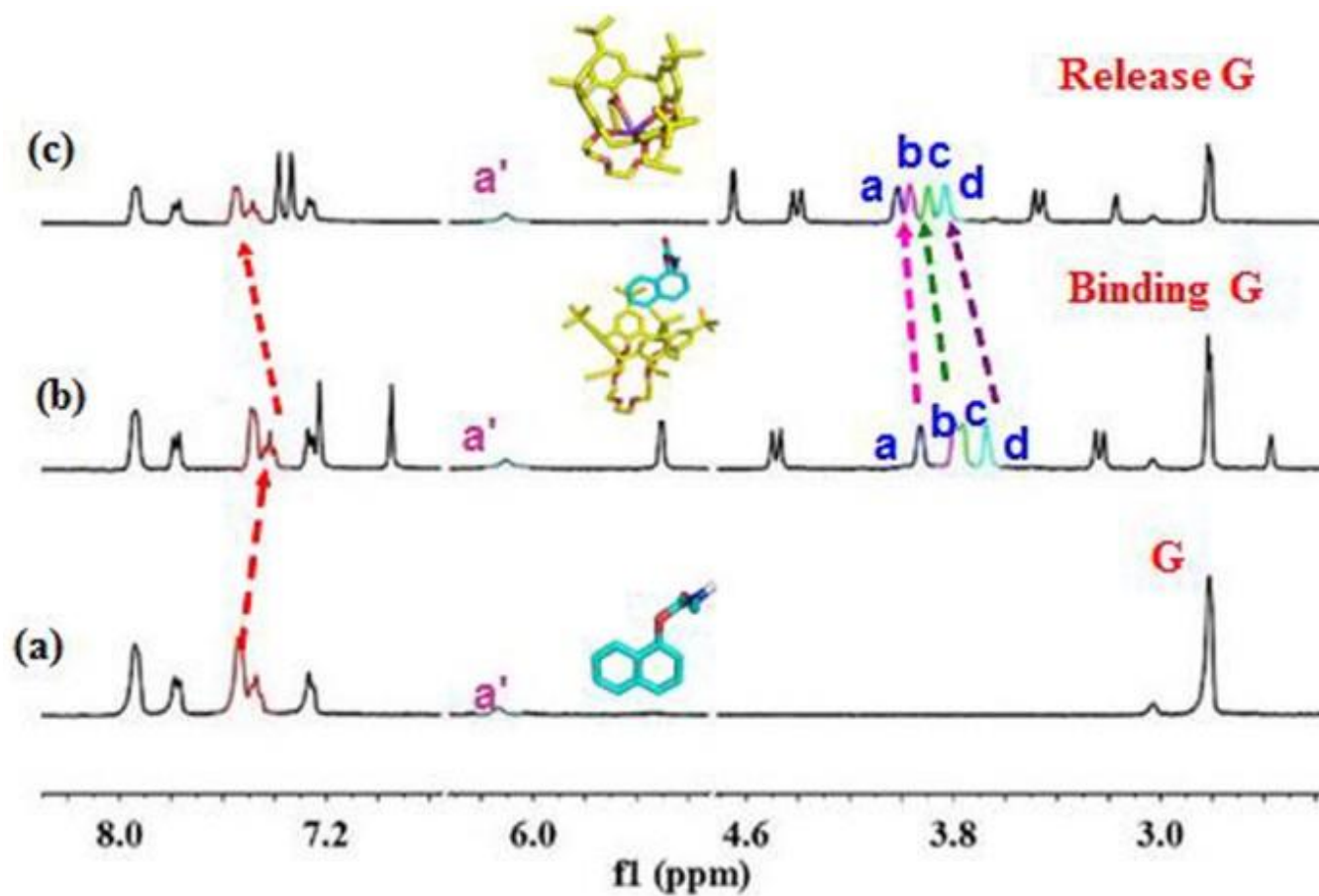
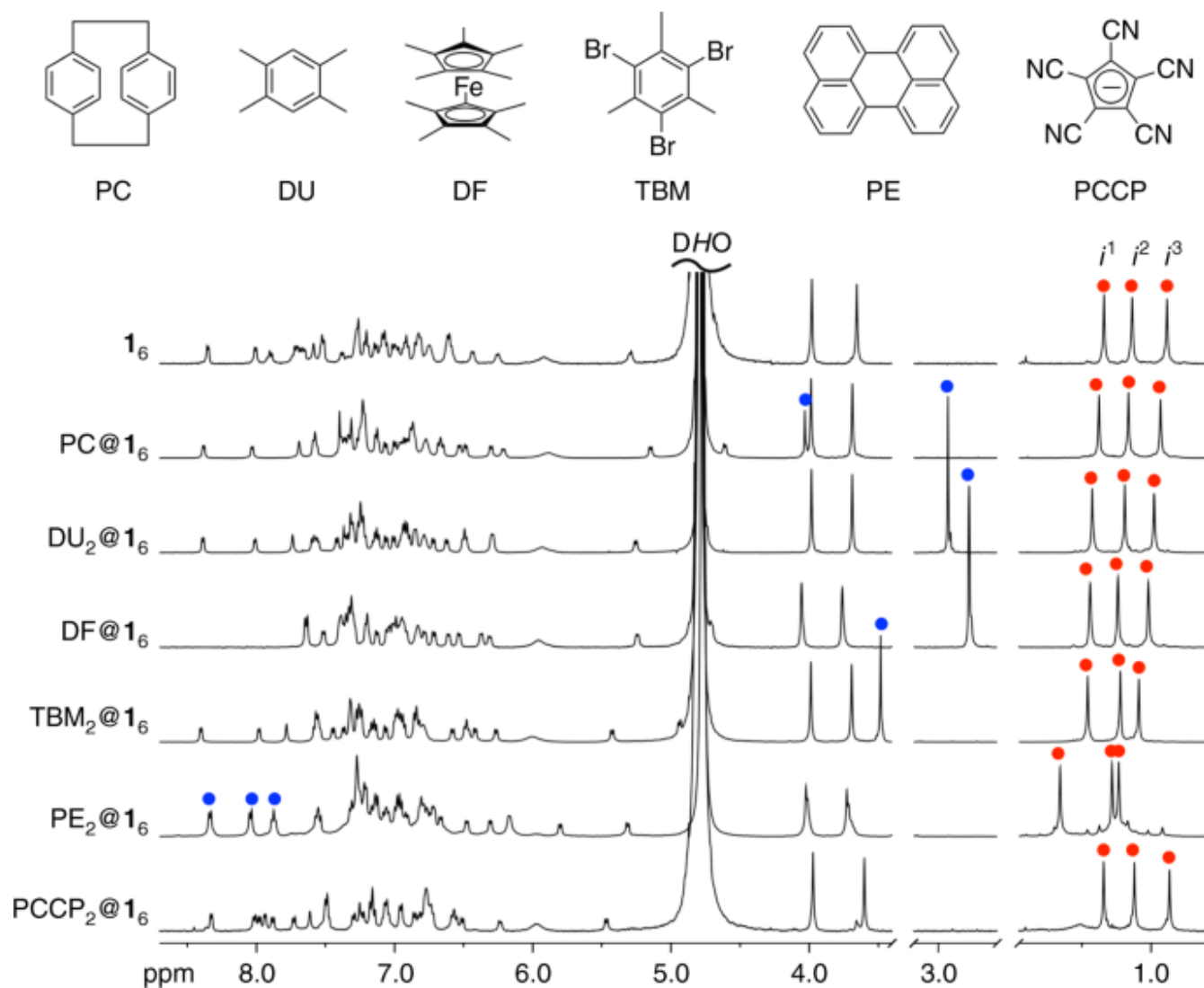


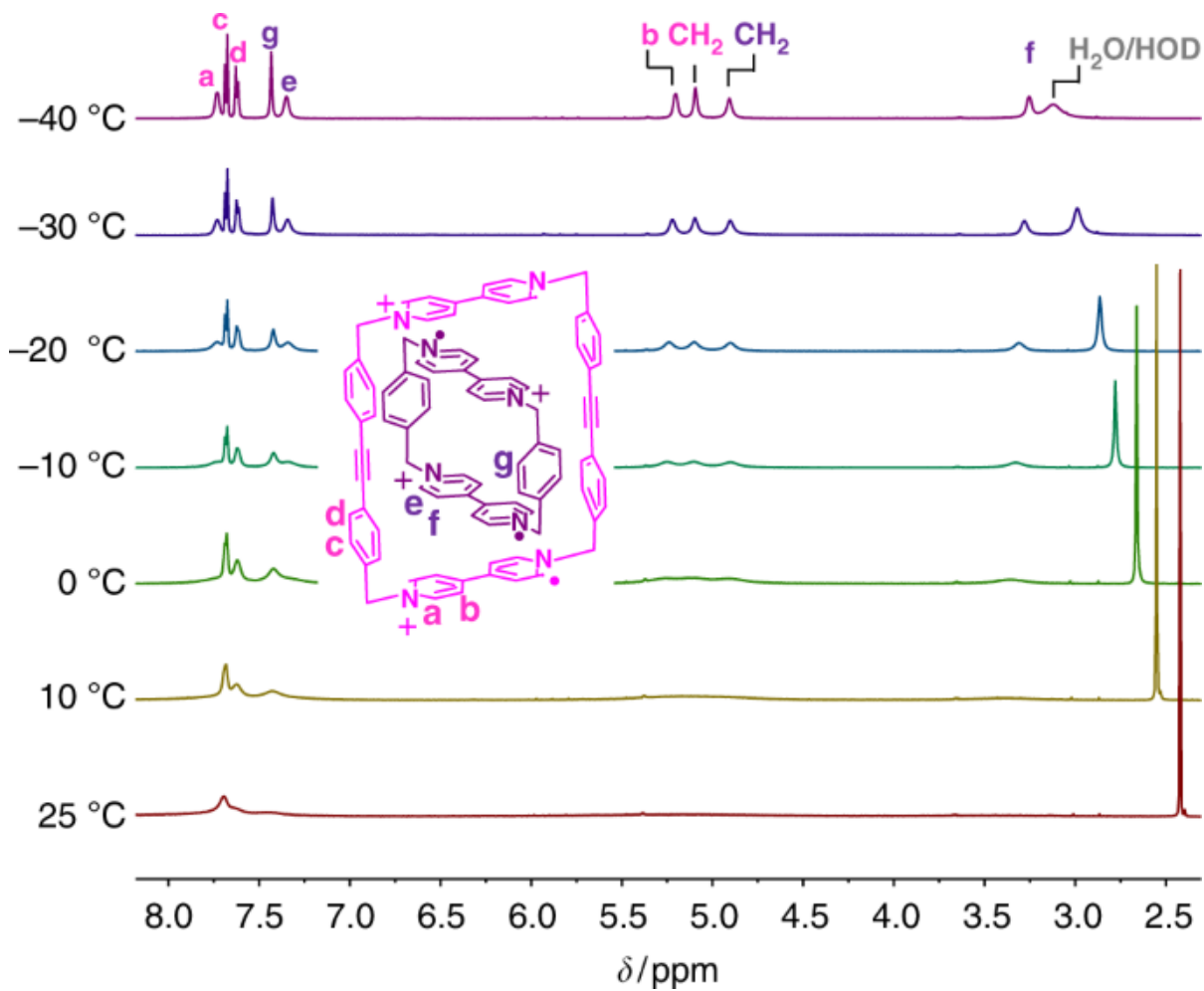
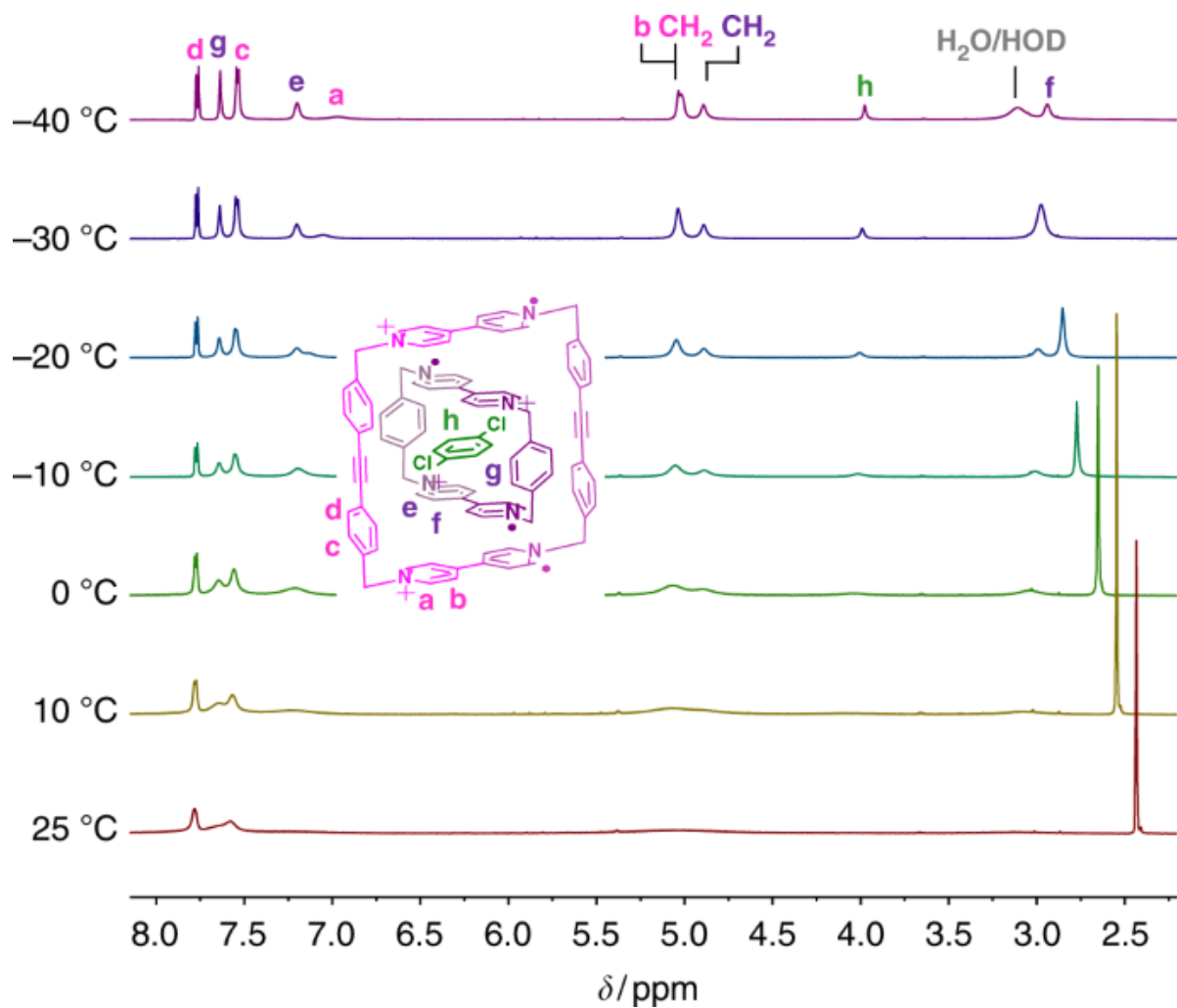




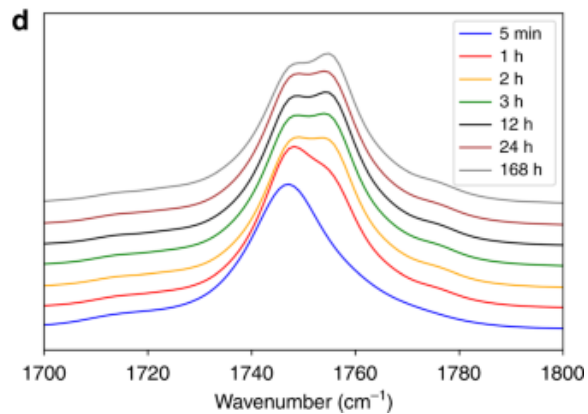
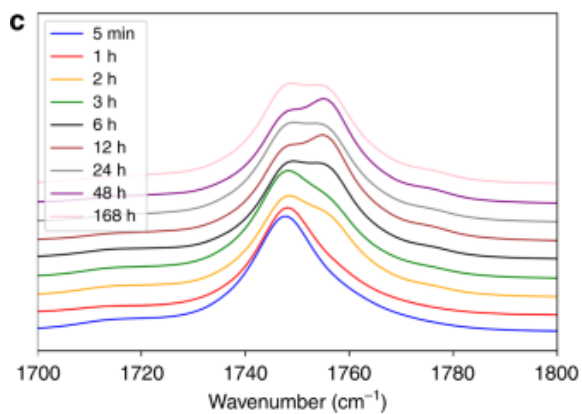
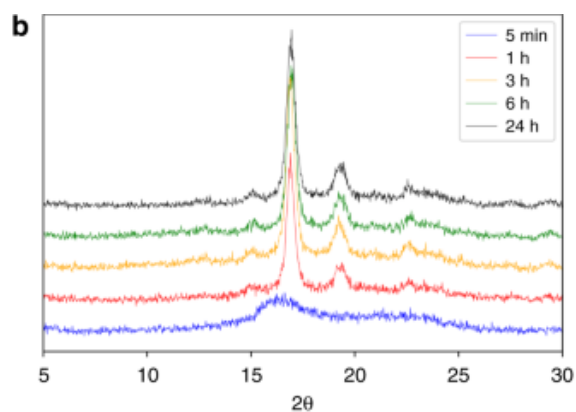
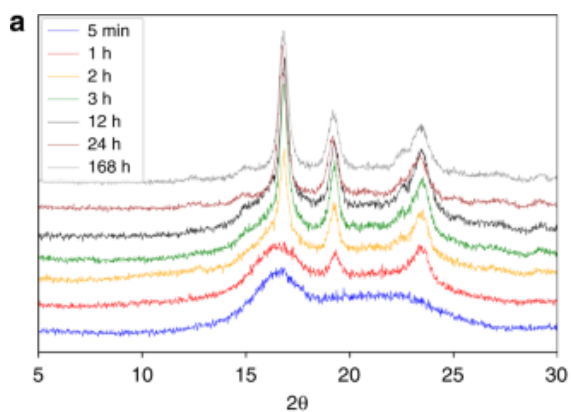
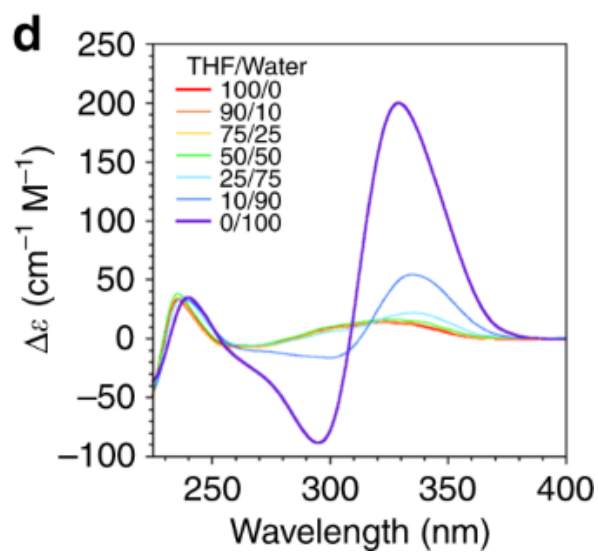
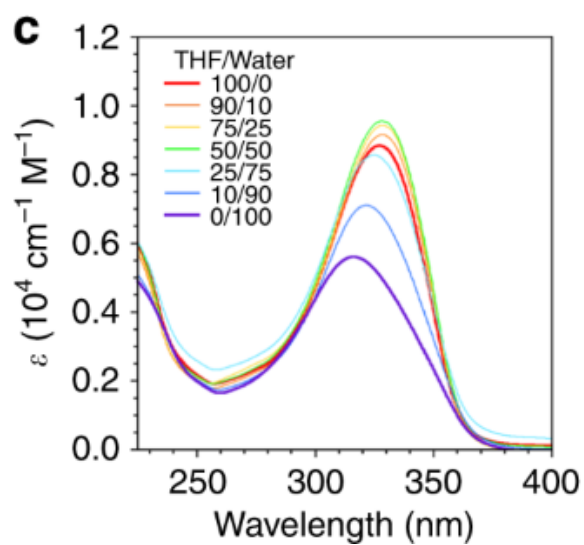
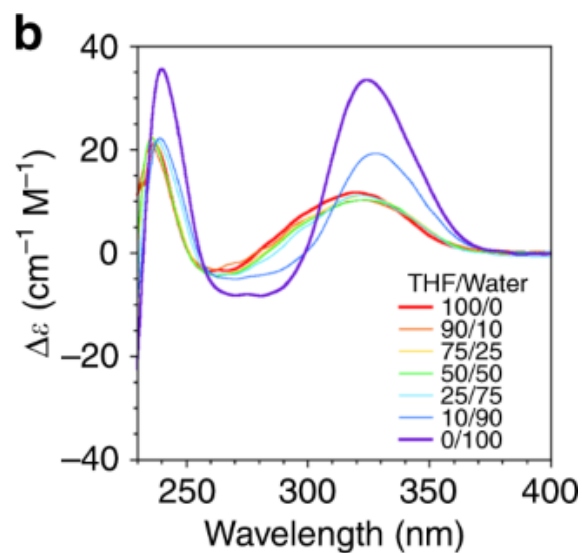
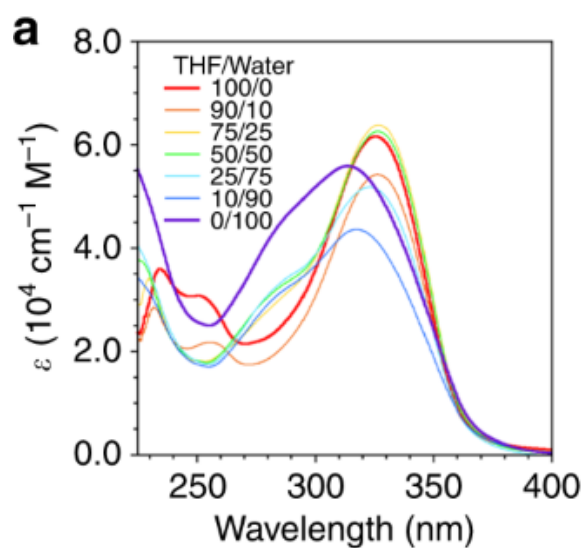


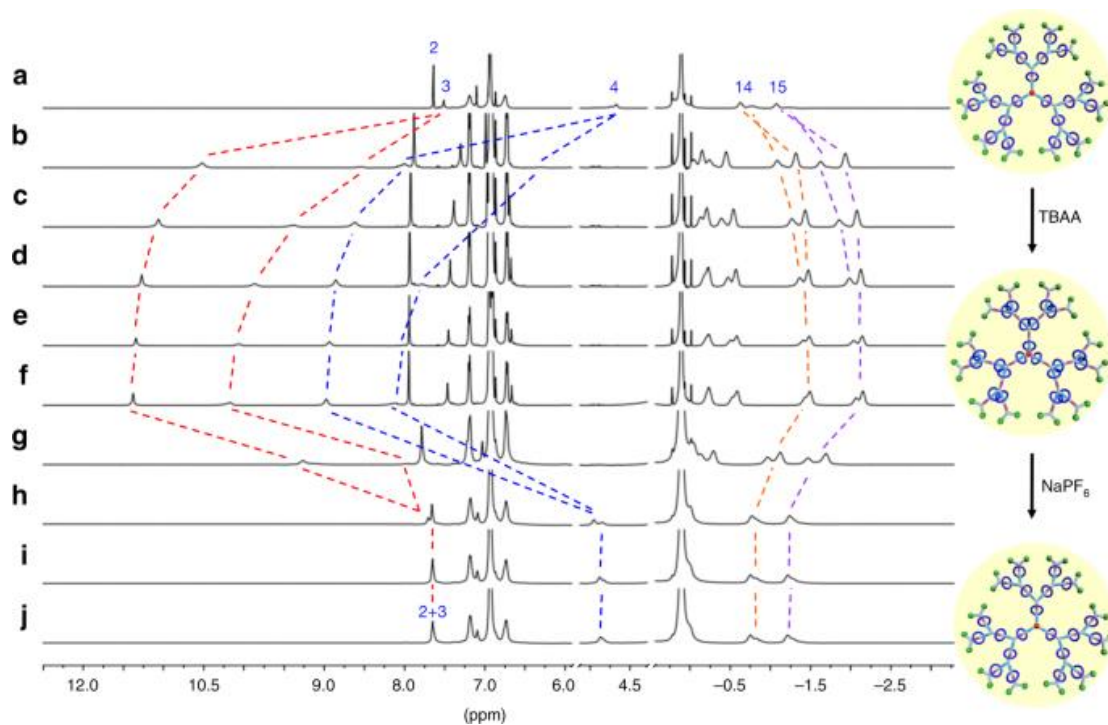
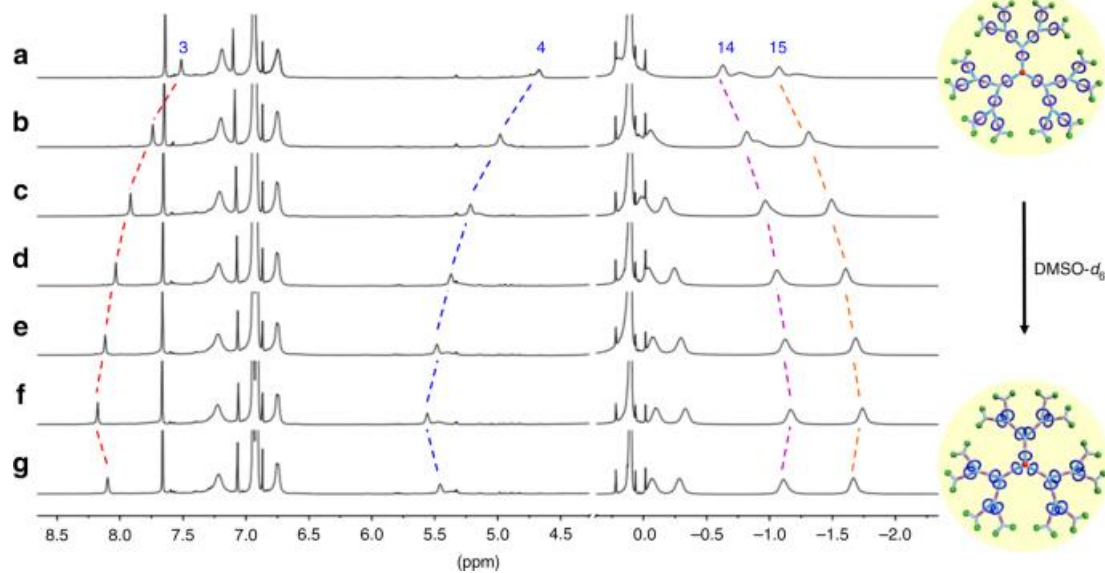
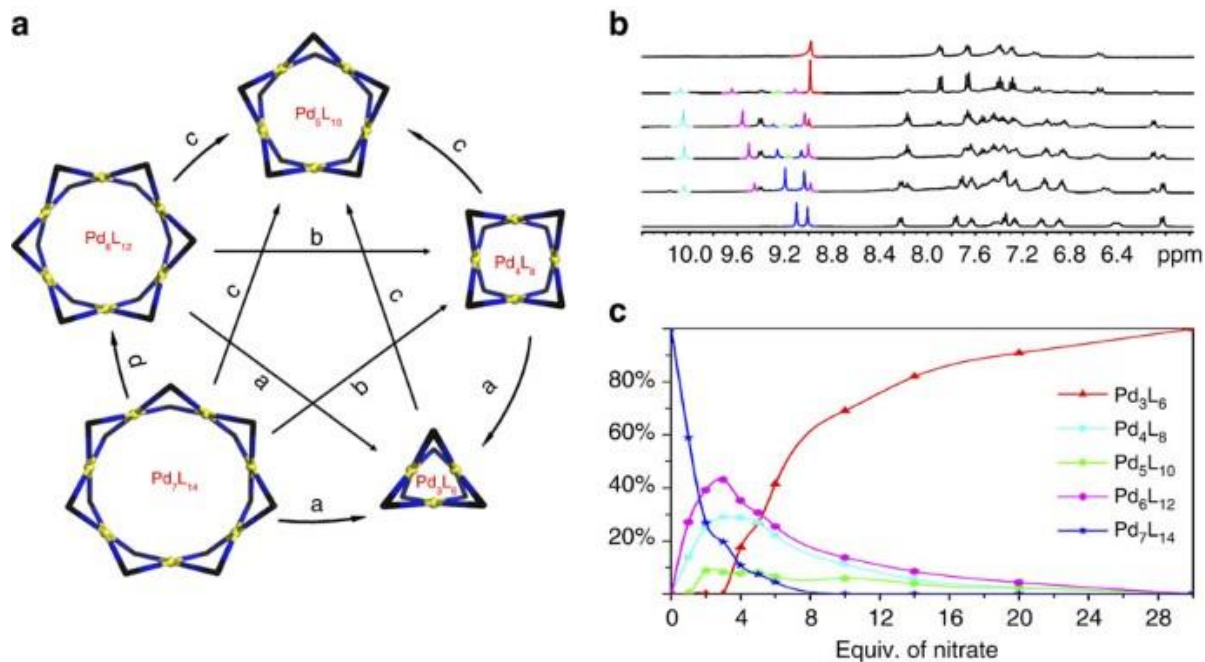




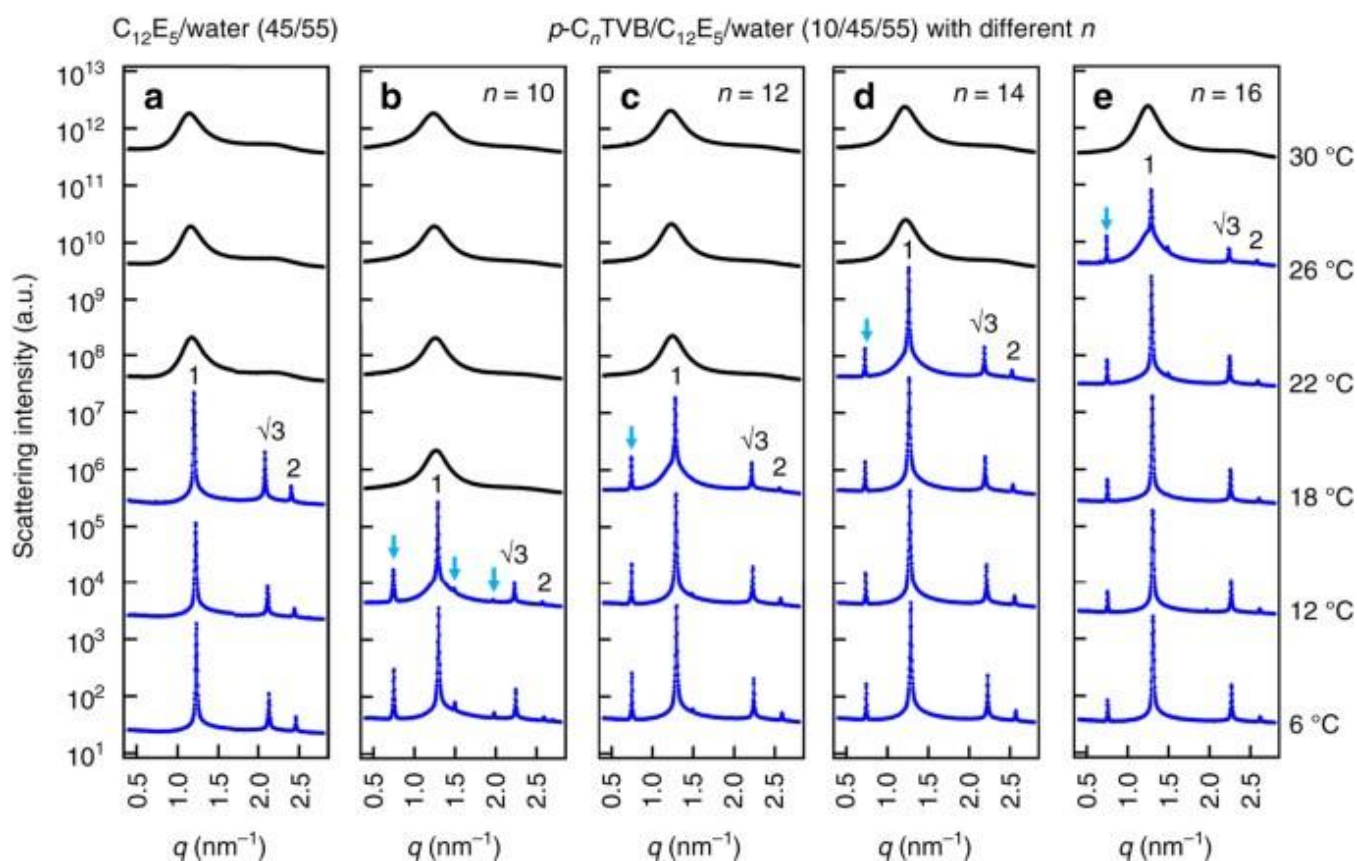
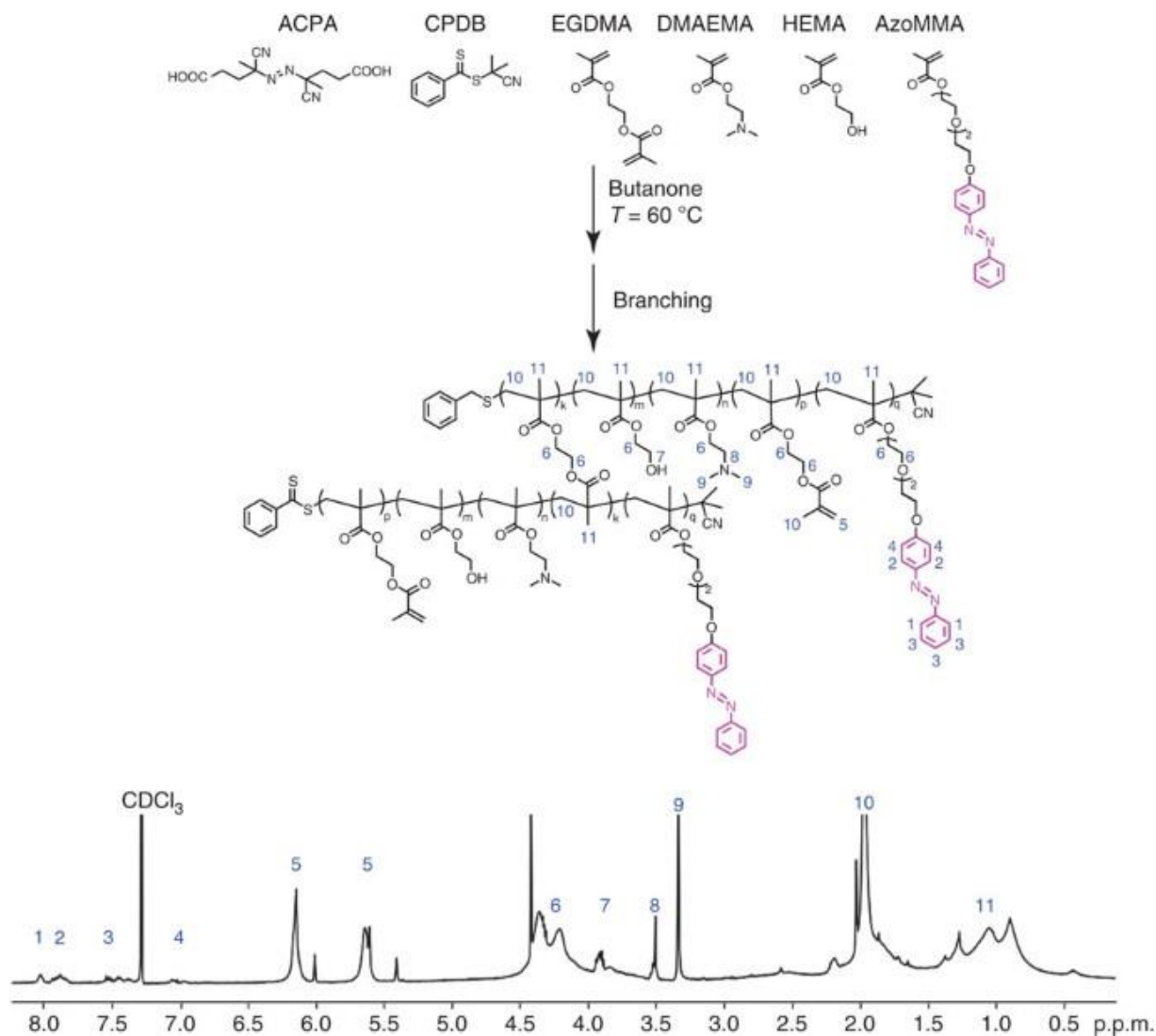


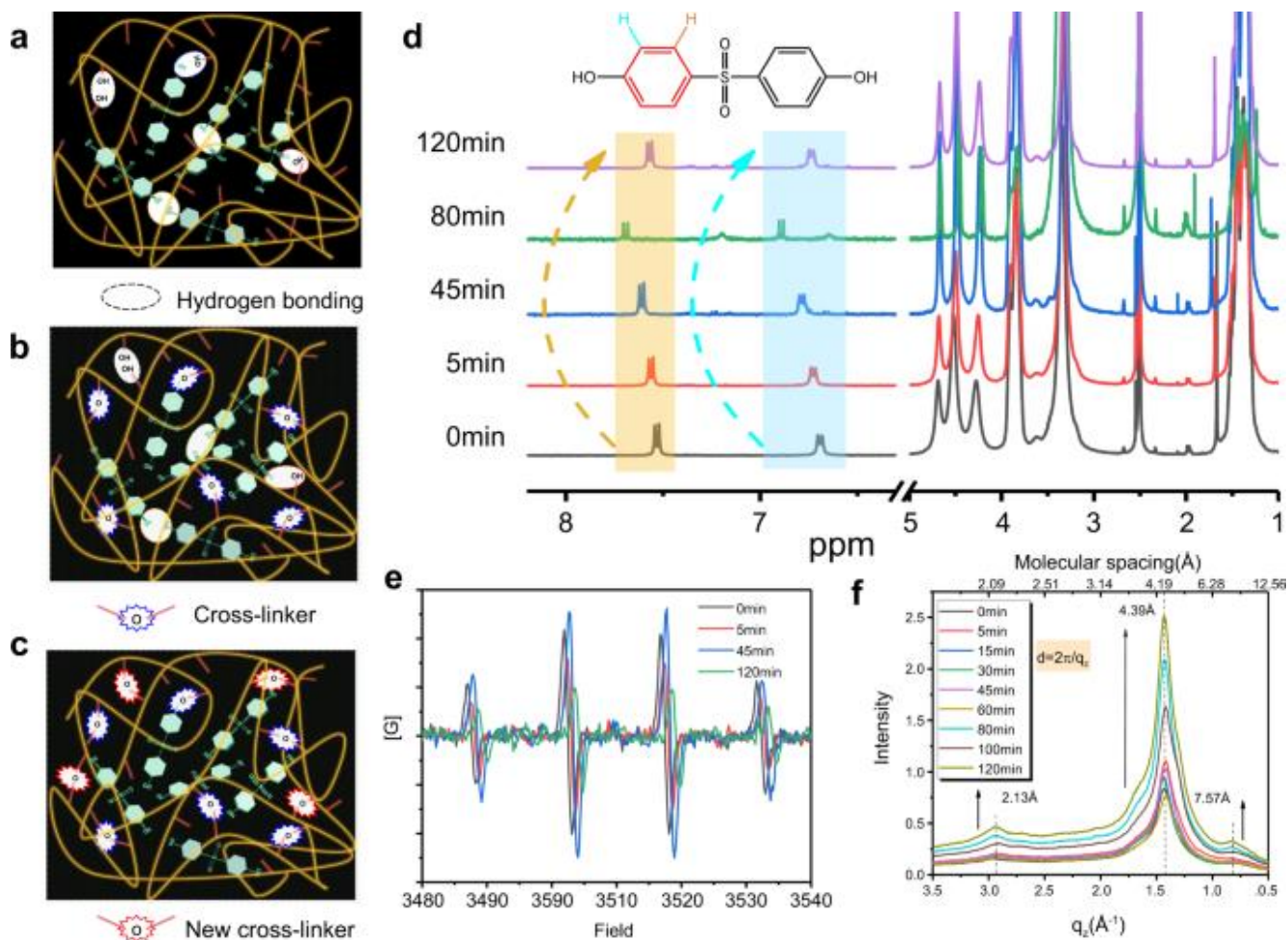
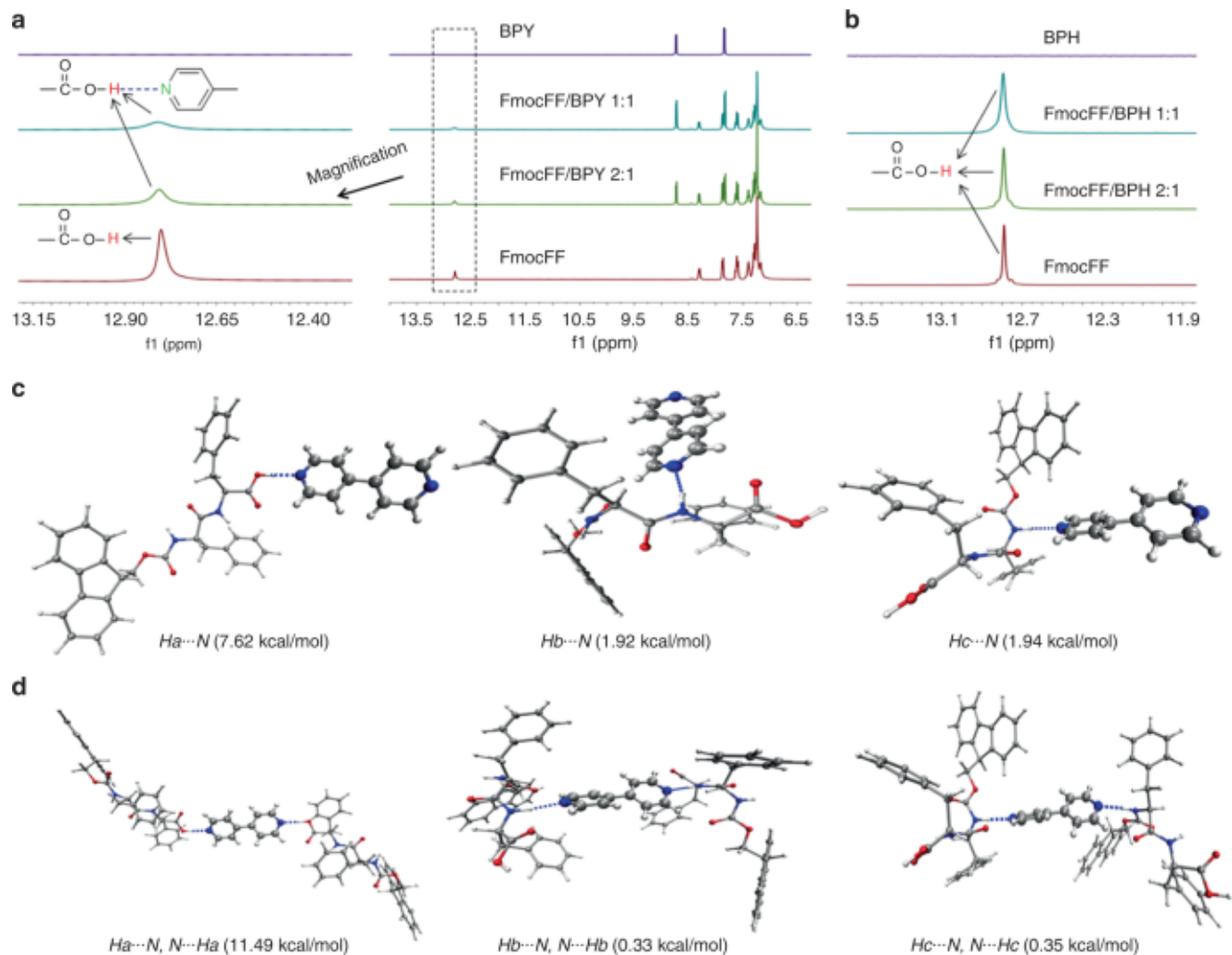




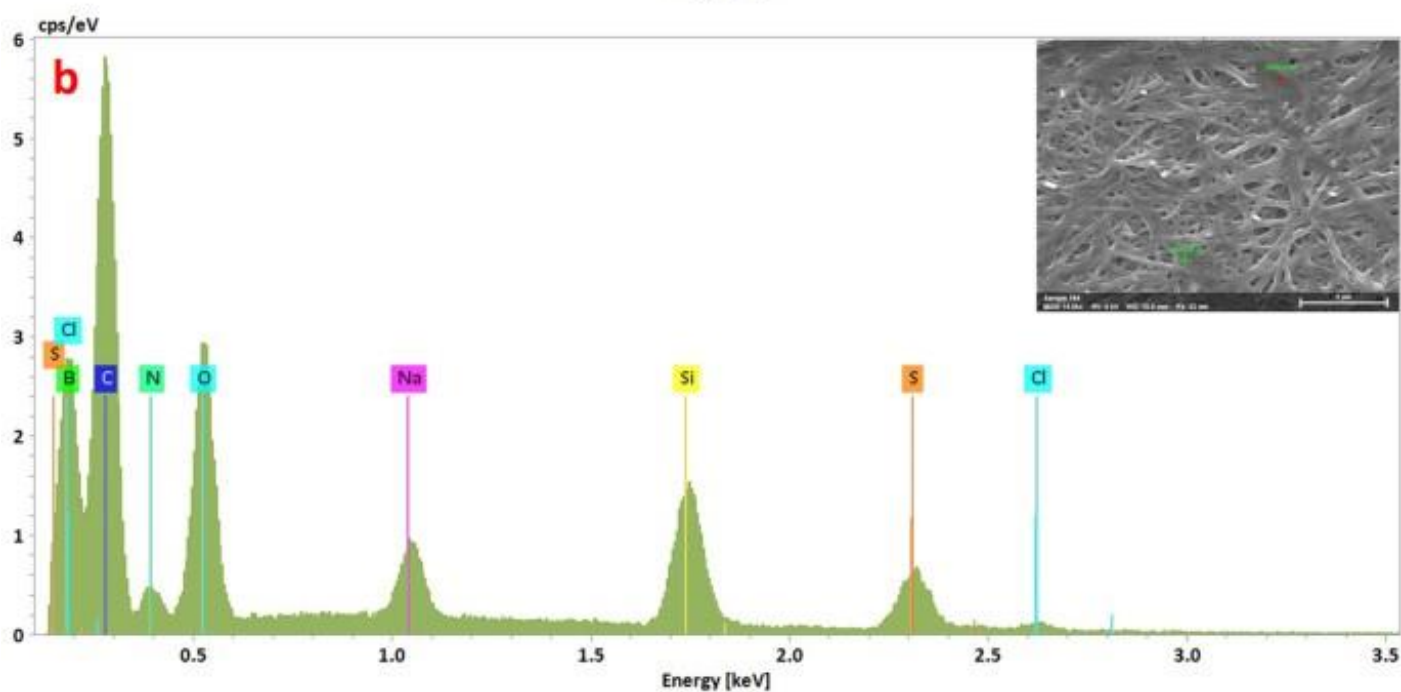
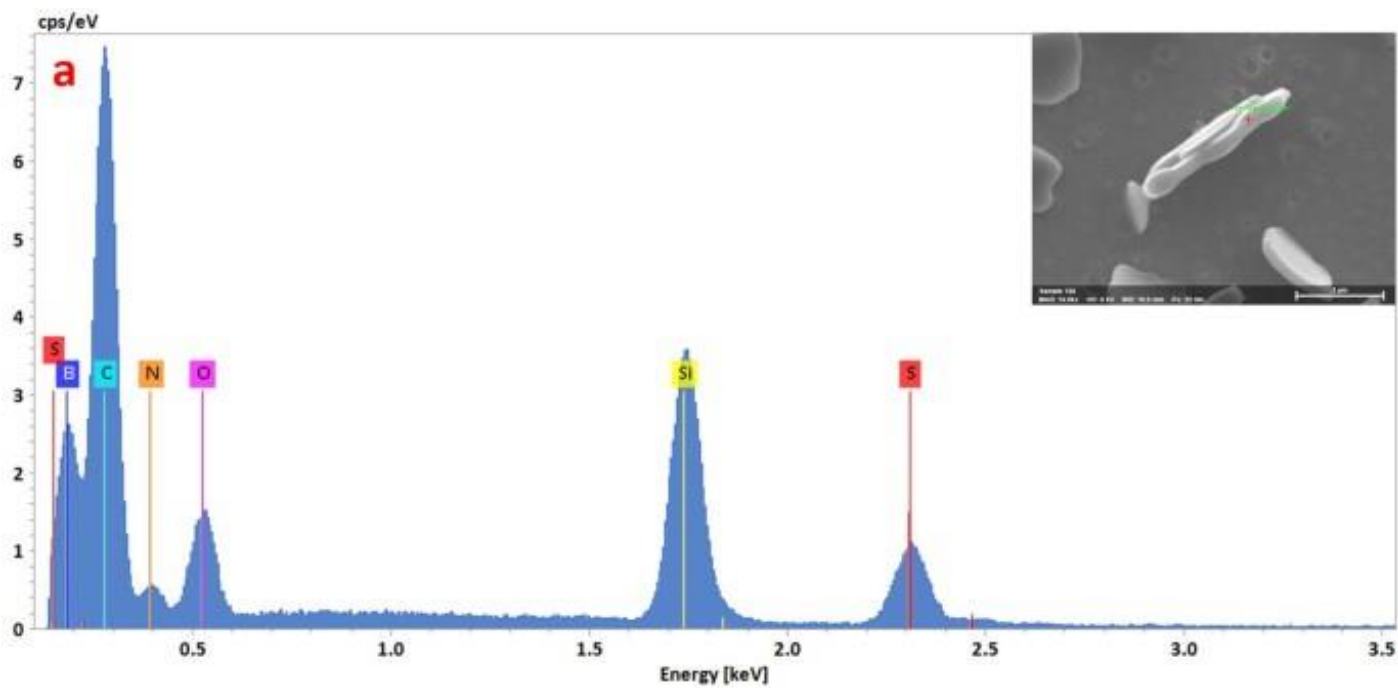


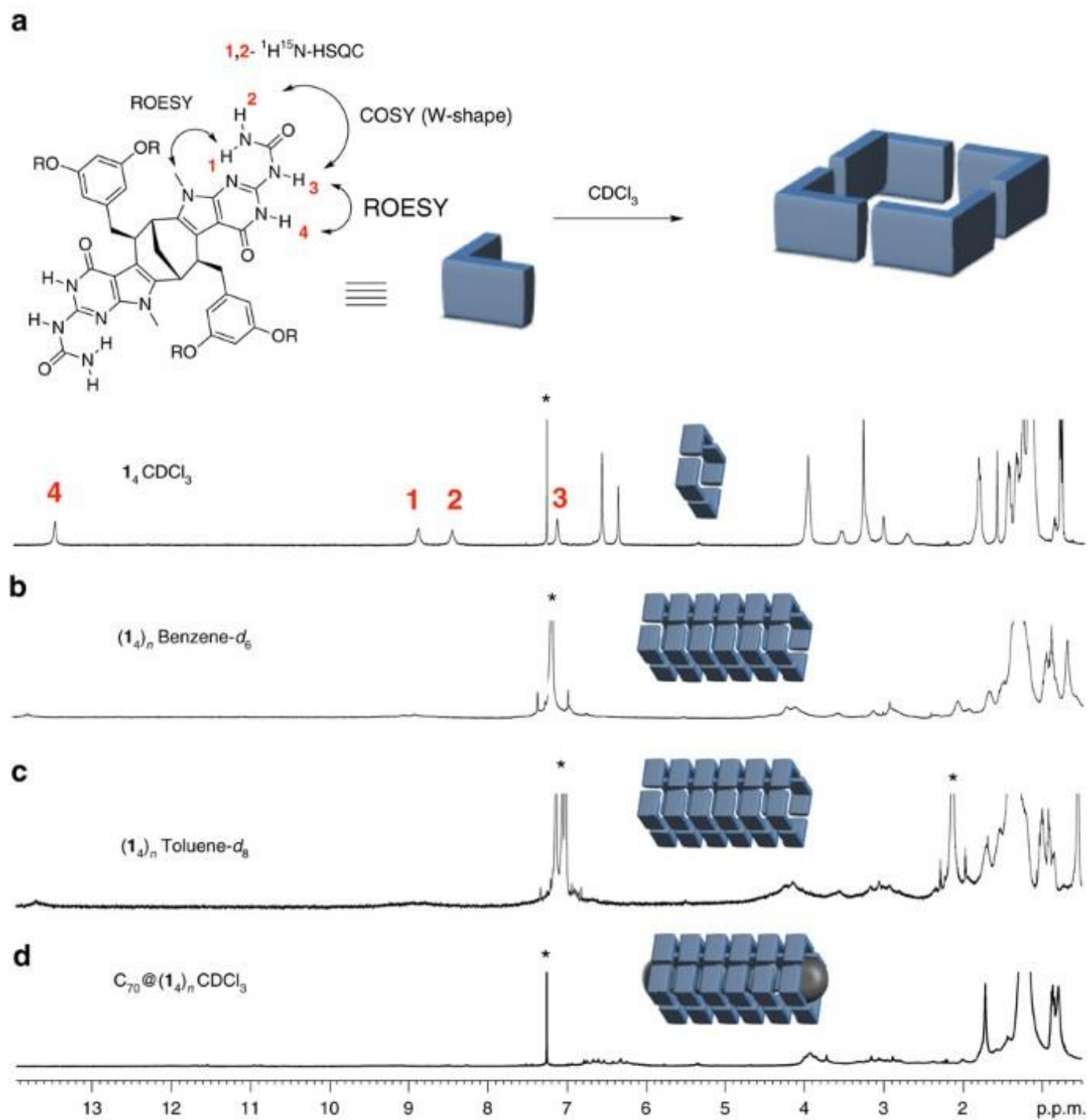




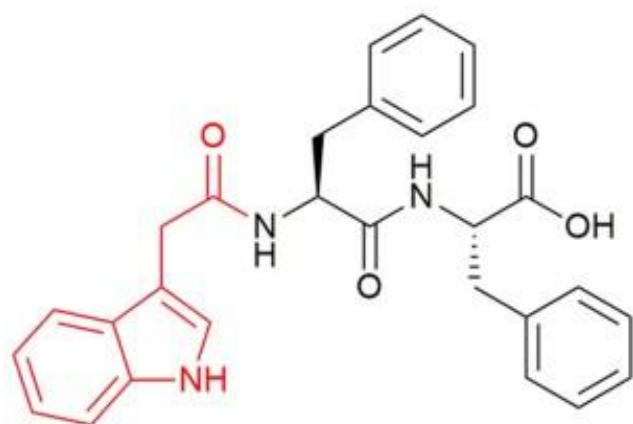
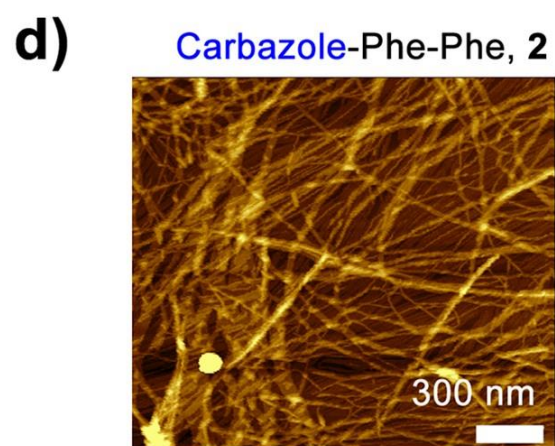
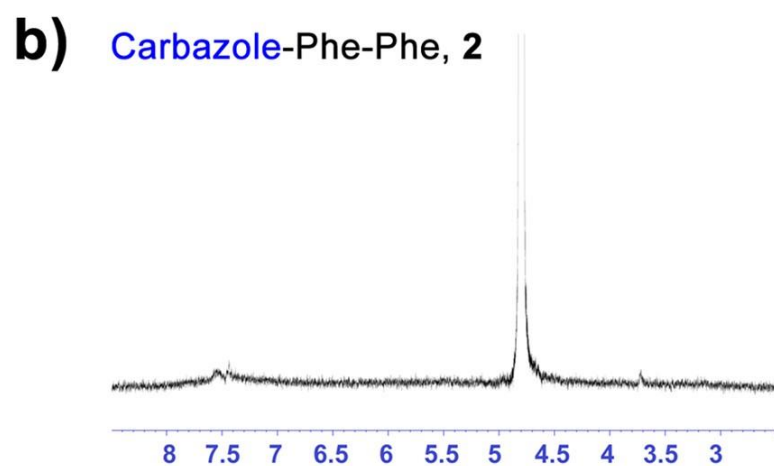
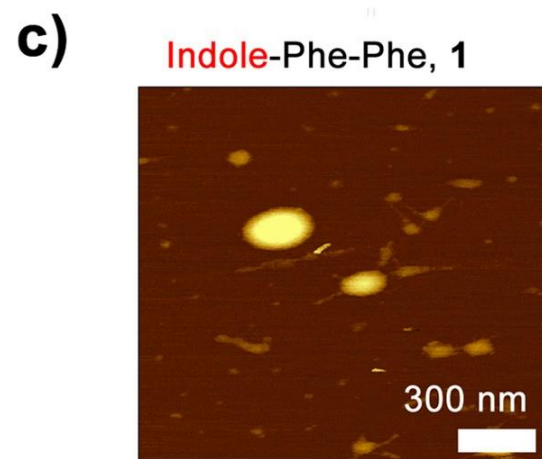
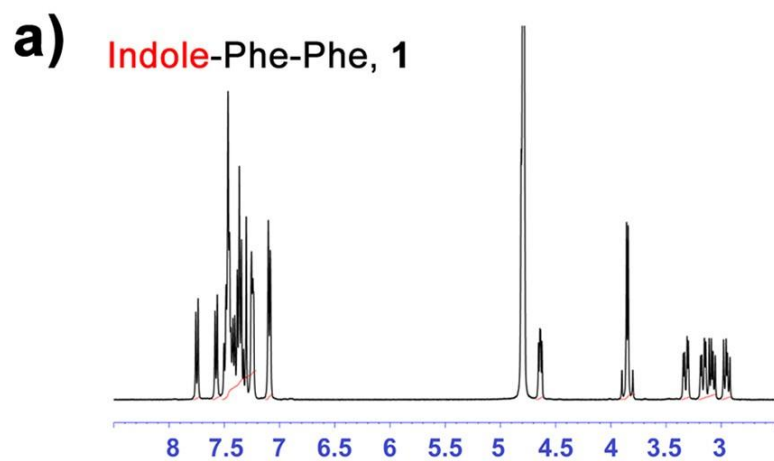




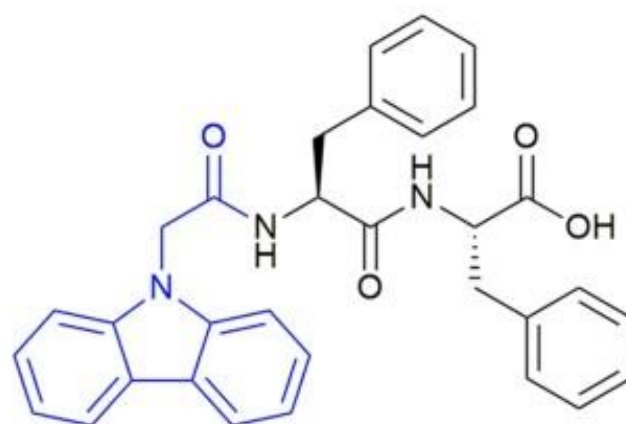




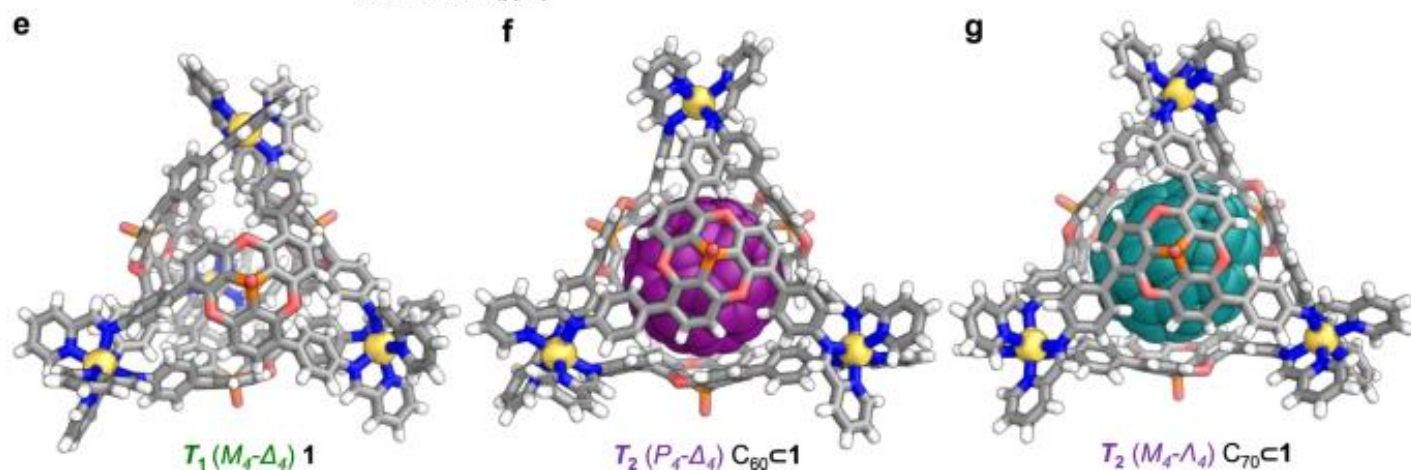
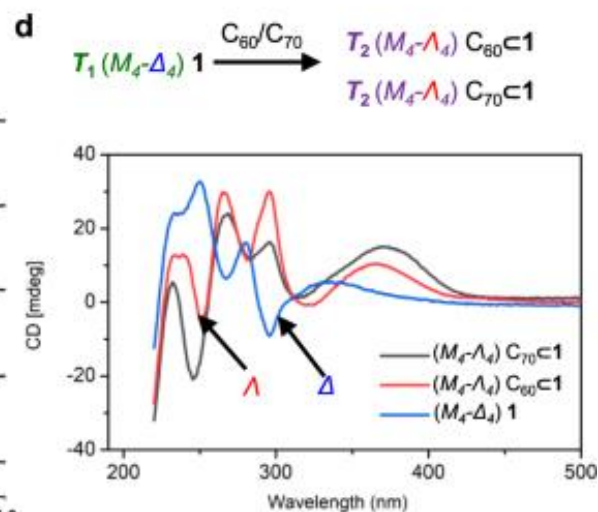
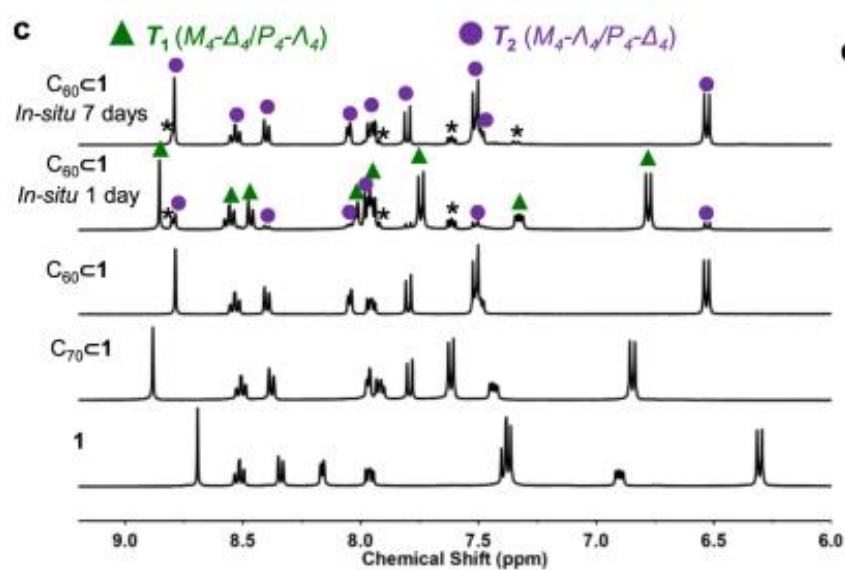
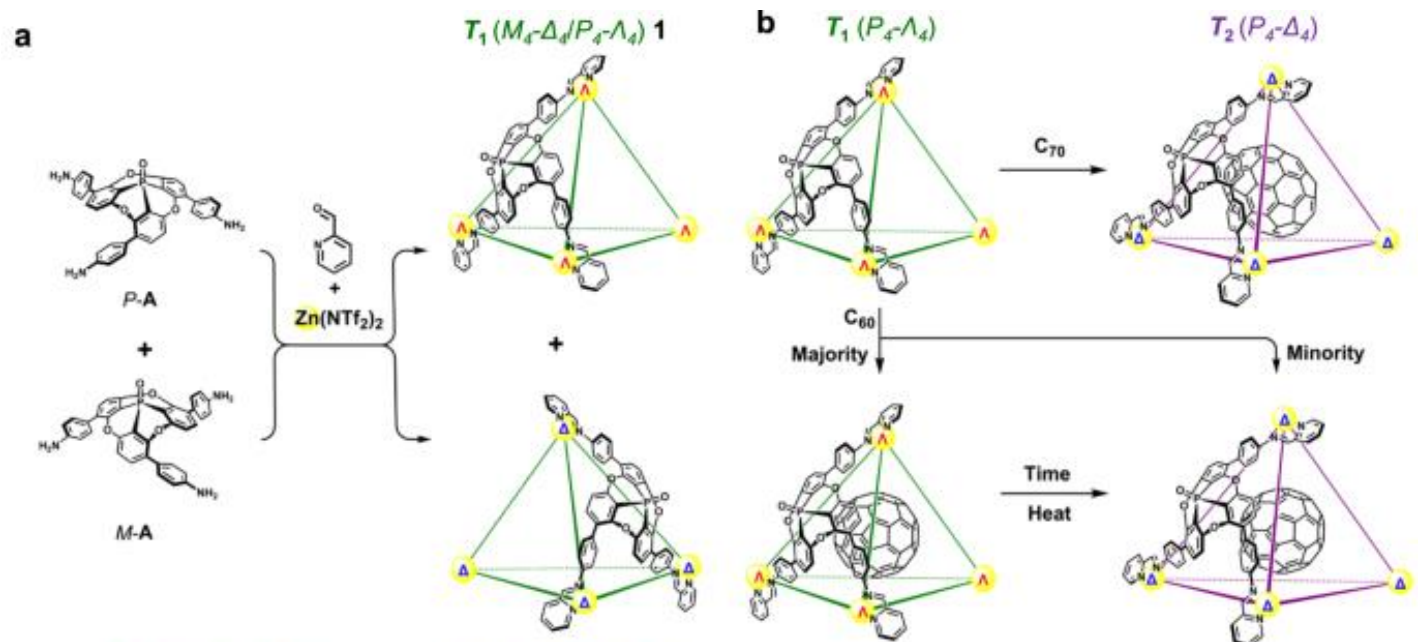




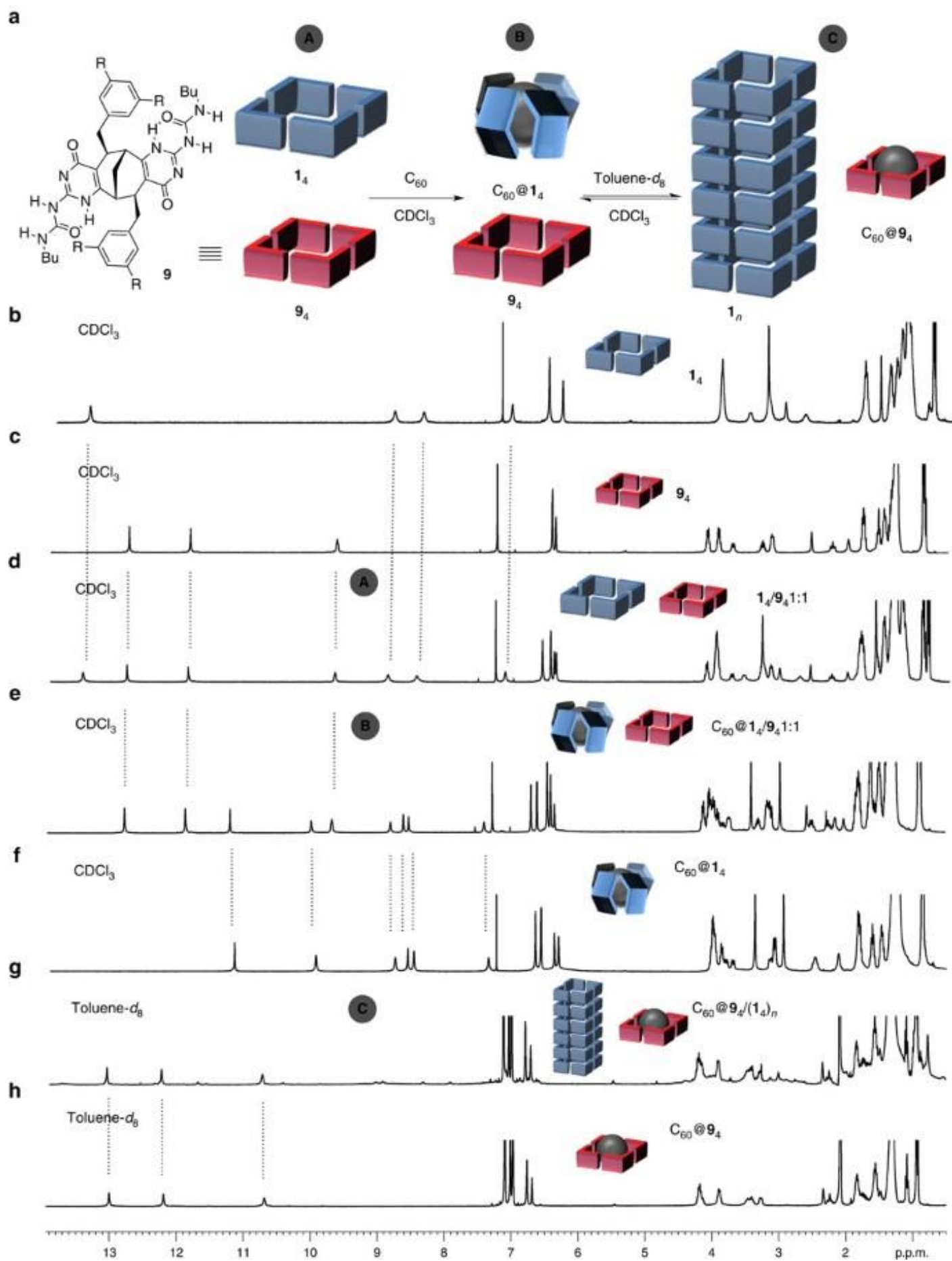
Indole-Phe-Phe, 1

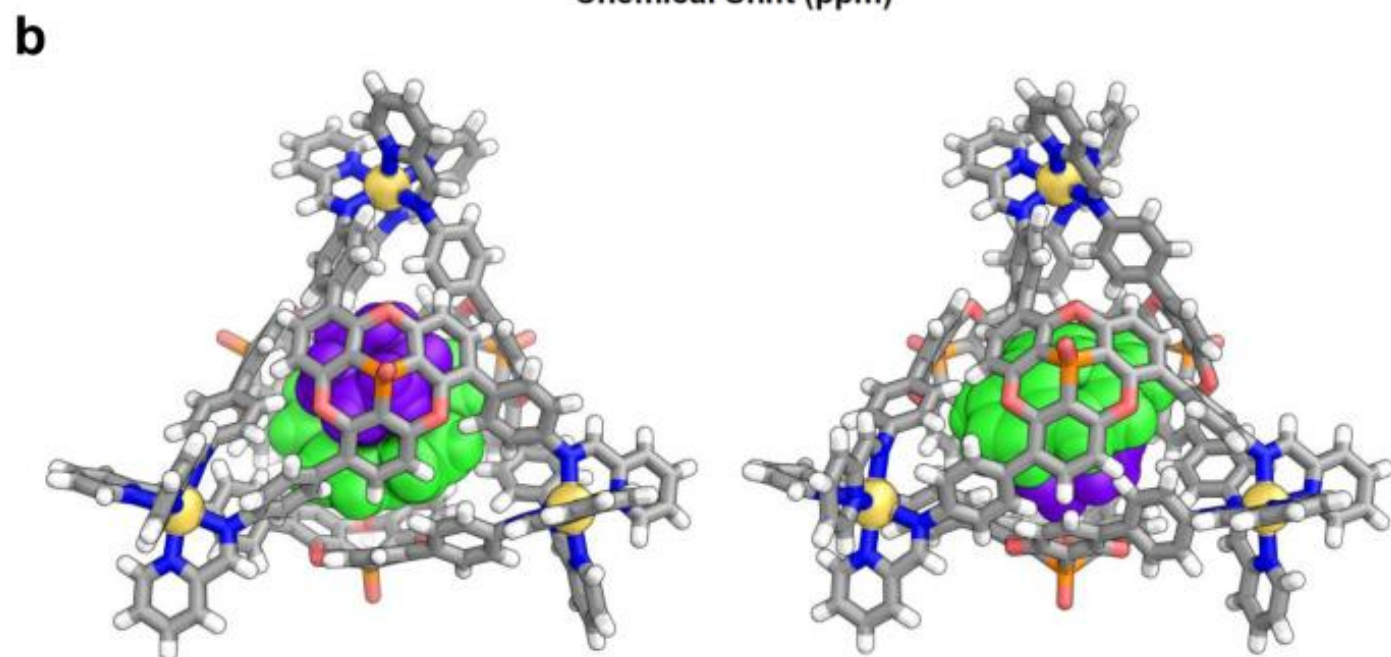
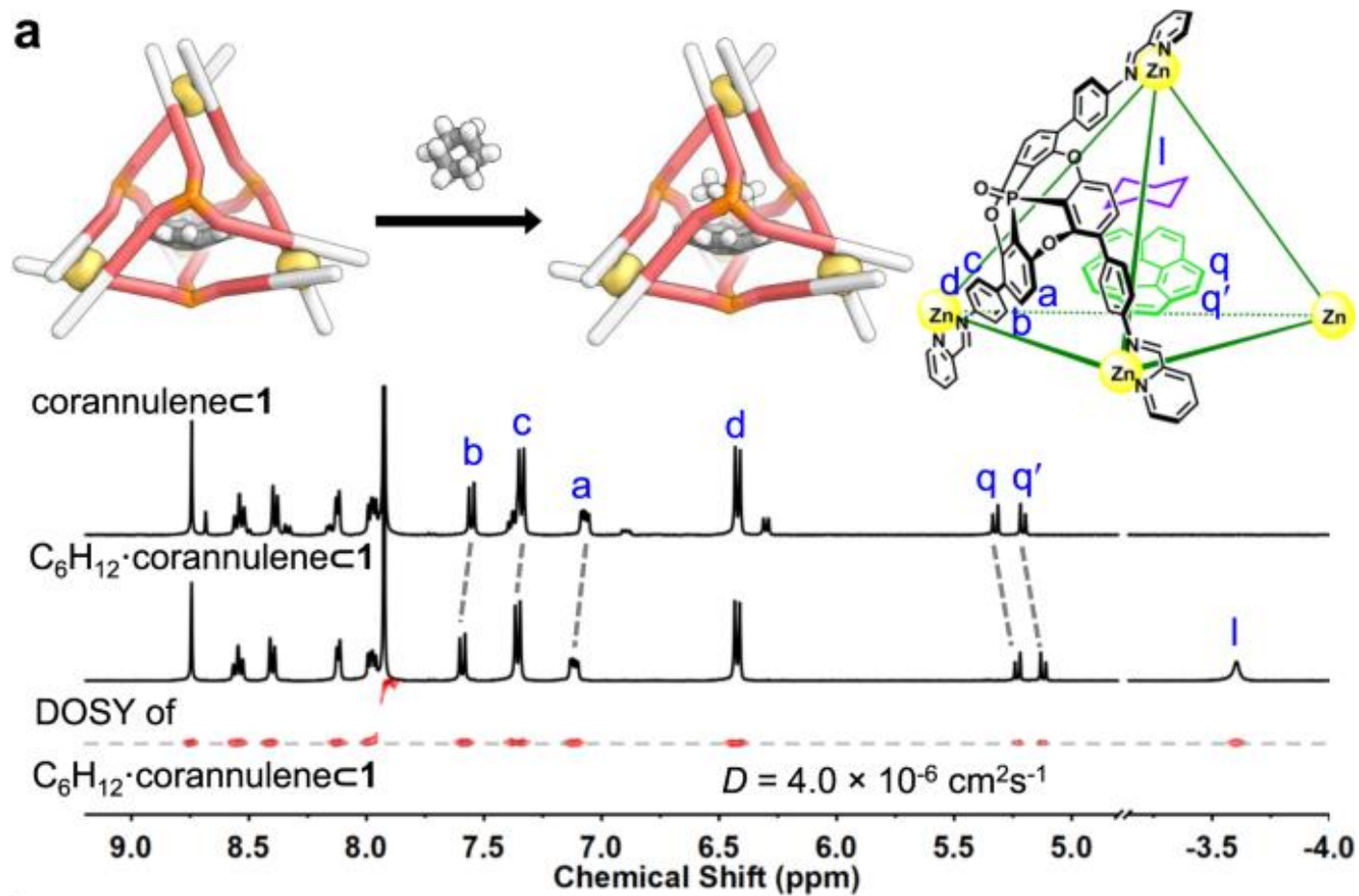


Carbazole-Phe-Phe, 2

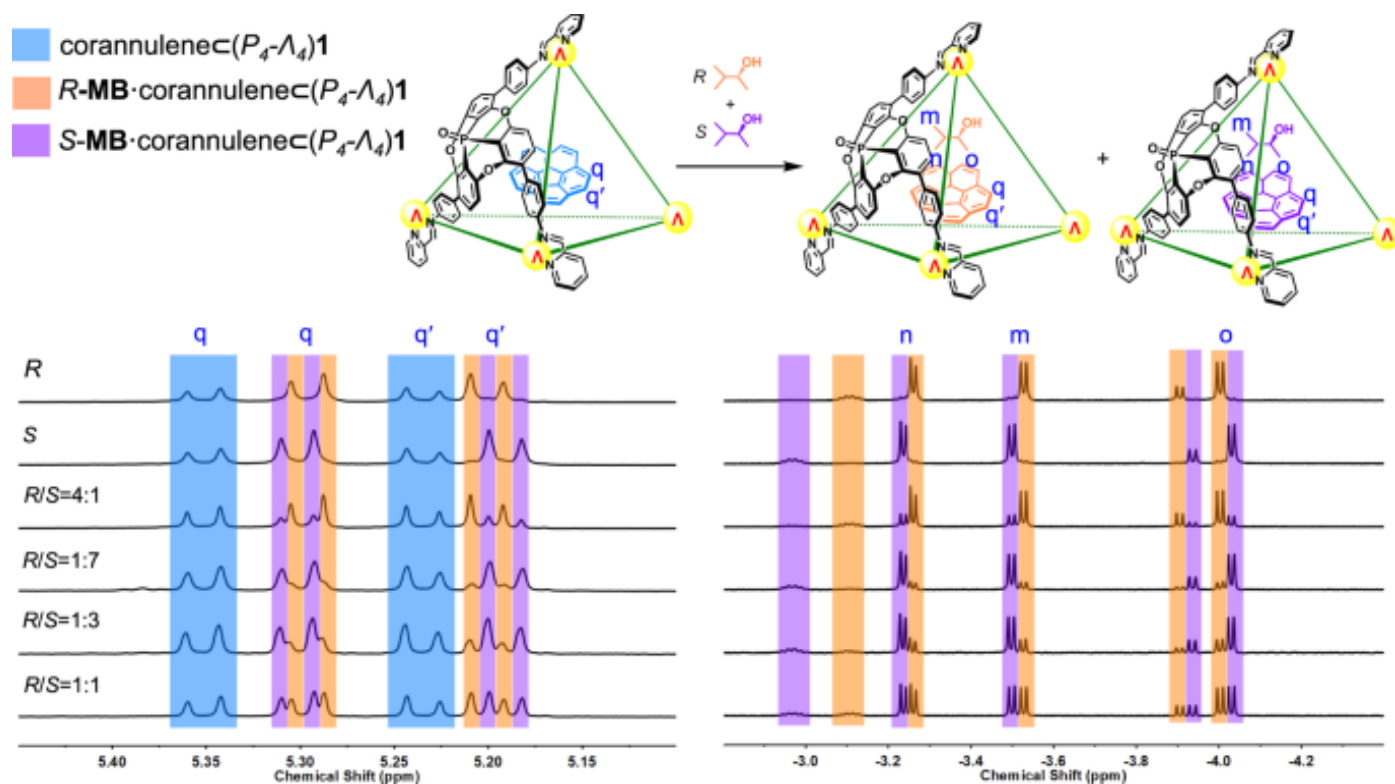
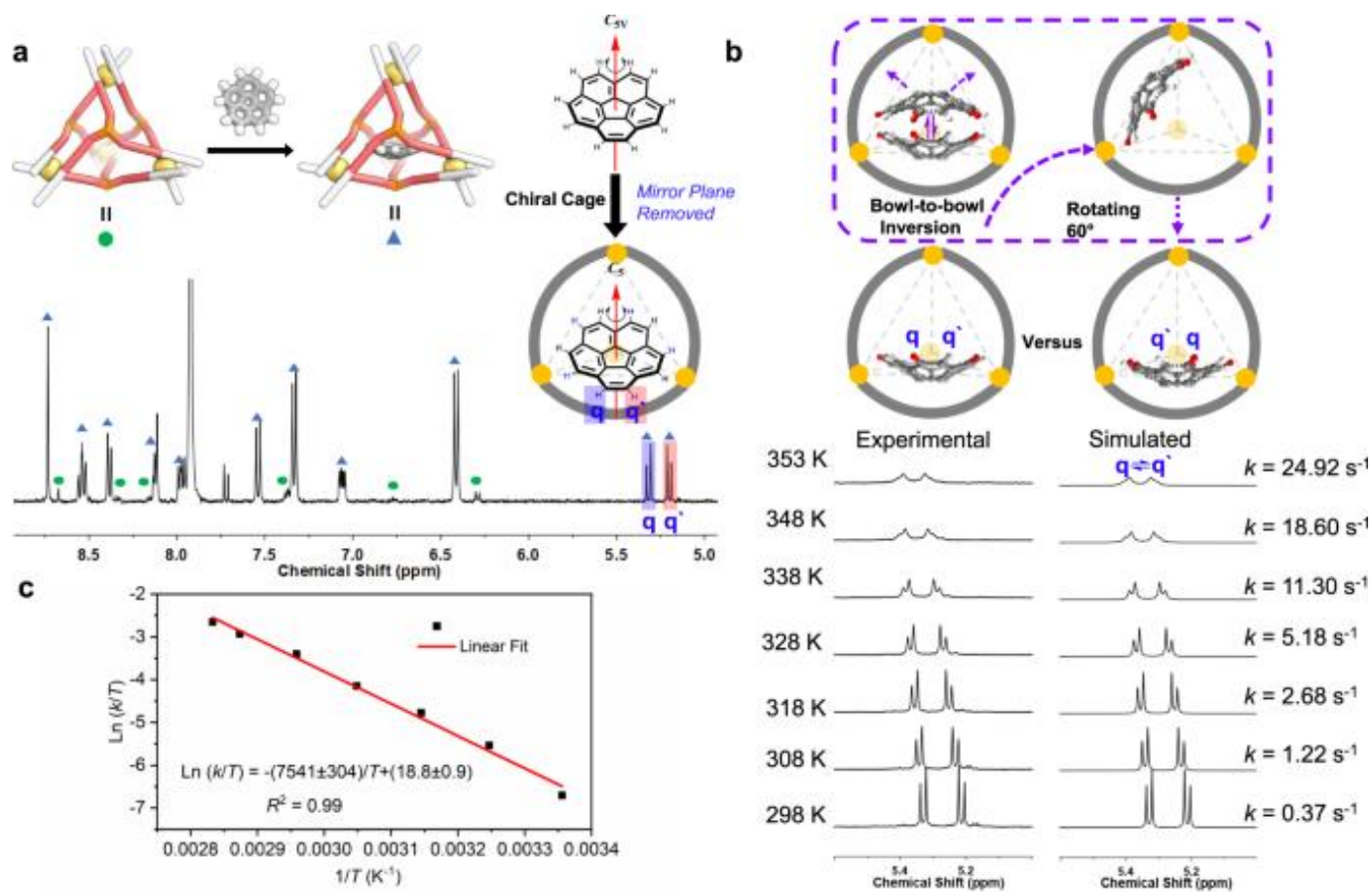






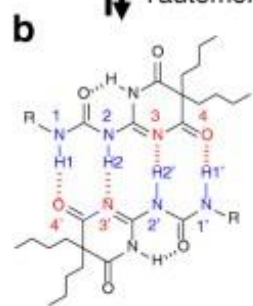




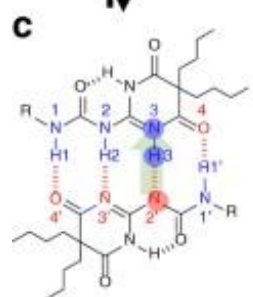




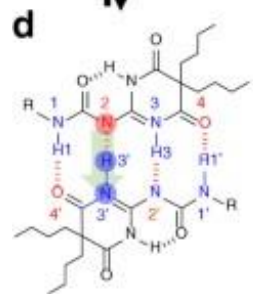
↕ Tautomerisation



↕ Proton transfer



↕ Proton transfer



↕ Tautomerisation

